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MISS BOXMAKER SERIES No. 1



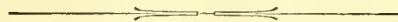
WHO AM I?

I AM MISS BOXMAKER—I live in Chesterfield, the Town with the well-known Crooked Spire,—and I work at ROBINSONS' CARDBOARD BOX FACTORY.

OUR MANAGER TELLS US it is one of the best equipped Factories in the Country, and is organised on modern Scientific lines.

Everything seems to be arranged with the idea of making WORK A PLEASURE. We are all very proud of the Reputation our Factory has for turning out good work.

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Robinsons
of Chesterfield
Cardboard Boxes

Where the War has permanently changed Business.

New Conditions which have to be faced.

UNDER THIS HEADING "SYSTEM" INCLUDES THE FOLLOWING:

The attitude towards Co-operation has altered. Its advantages are realised.

THE War has brought an increase in the spirit and practice and habit of co-operation and collective action, and a consequent diminution of individualism. Victory came by a vast co-operative effort of all powers within the nation; that lesson will not be forgotten. By common dangers and difficulties the various businesses in any industry have been drawn together, have had to confer and take common measures, have had to control each for the good of all. The many new trade associations, amalgamations of trade bodies, and the revivifying and strengthening of old associations—all constitute a growth of the habit of interchange of ideas, and common action has been a result. Business men have had a compulsory training in co-operation; they have seen that its supposed dangers are mostly imaginary, its advantages real, and its continuance advisable.

**WHICH CAN ONLY BE DESCRIBED
AS UCALISM—PURE & UNDILUTED.**

**The Spirit of Economy brought about by
the War must and will remain.**

Economy, conservation of materials, labour, salvage—a new spirit in this whole section has been introduced into business. Let it continue—it is a source of wealth to the nation and profit to the individual.

**THE UCAL PLAN RELEASES THE
PHARMACIST FROM MUCH
DRUDGERY—AND BRINGS HIM AN
ADDED PROFIT ON THE CHANGE.**

High Production we have learnt is essential to our prosperity.

The increased cost of labour necessitates economical use of it and big production from it, and the utilisation of machinery to the greatest possible extent; while the increased cost of buildings and plant implies the necessity of using them to their utmost of production.

**UCAL PROVIDES THE PHARMACIST
WITH THE MEANS OF "MASS
PRODUCTION"—AND PRESENTS
HIM WITH THE ULTIMATE PROFIT,
WHILE SECURING GREATER EFFI-
CIENCY ALL ALONG.**

Business will be open-minded in the future; this is a war lesson.

New ideas are more welcome. The British mind has had to open itself to the new idea in everything, and it has learned that a thing is not necessarily good because it is old, or bad because it is new. This open-mindedness will remain, and will affect business at many points.

**UCALISM IS BASED UPON THE
NEW IDEA THAT THE INDIVIDUAL
PHARMACIST, THOUGH ABLE TO
"STAND ALONE," WILL STAND
BETTER WITH THE STRENGTH
THAT COMES OF UNITY.**

**Scientific research will be applied to
industry much more than in pre-war
days.**

Great strides have been made in the application of science to business. Finding substitutes for the accustomed but un procurable raw materials and ingredients, development of machinery—all have taught the value of study and research, science applied to commerce.

**THIS ALSO IS A MAIN PLANK IN
THE UCAL PLATFORM—BUT WHAT
HAS BEEN DONE IS ONLY A
FRACTION OF WHAT MAY BE DONE
AS UCAL GOES FROM STRENGTH
TO STRENGTH.**

**Advertising has come into its own as a
sales and reputation bringer.**

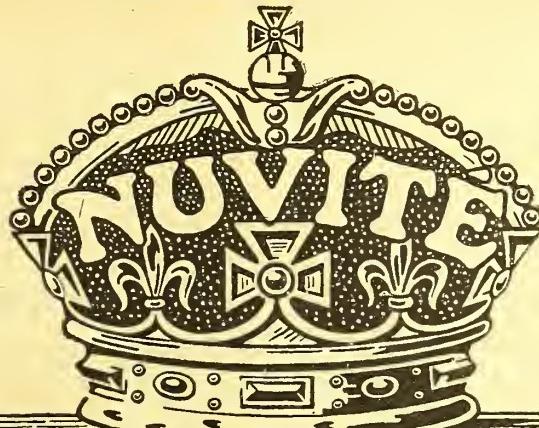
The four years of war have done more to dignify advertising, to legitimatise paid publicity, to prove the solid result-bringing power of advertising, than would have forty years of commerce. And most important of all, the public has got into the habit of being influenced by the advertising appeal, of trusting it and following it. There is bound to be a great expansion in advertising, and no business man can safely leave it out of his plans.

**UCAL IS ADVERTISING AS AN
ACTIVE AND DYNAMIC ADVER-
TISER; IS GOING TO BE A FORCE
TO BE RECKONED WITH IN THE
NEAR FUTURE.**

UCAL, Cheltenham Spa.

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RED CROSS SOCIETY
for
Naval and Military Hospitals.

Supplied to the
HOUSE OF COMMONS
and
His Majesty's Government.



AS SUPPLIED TO OUR SICK & WOUNDED
BY COMMAND OF H.M. QUEEN ALEXANDRA.

NUVITÉ IS

The ideal tonic FOOD.
Free from any injurious drugs.
A scientific product.

NUVITÉ

Feeds, as digested food feeds.
Actually accomplishes all that it
claims—no more, no less.
Gives immediate benefit, and the
result is lasting.

NUVITÉ (Non-Alcoholic)

Is the greatest temperance
beverage of the century —
satisfying and thirst-quenching
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 NOW!

EXPENSIVE MODEL LENT FREE.

This beautifully coloured figure, standing 24 inches high, will be sent securely packed in crate, carriage paid, to every chemist purchasing **Ker-nak Pills to the value of 50/-**. These will be supplied on the usual Window Show Terms of 5 per cent.

The only stipulation is that, after 2 weeks' show, the Ker-nak Boy must be sent to a new address which will be supplied.

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NAME _____

Address _____

Date _____

To Messrs. C. E. Fulford, Ltd., Carlton Hill, Leeds.

Please send "Ker-nak Boy." I agree to give 2 weeks' window display, and forward the figure (carriage at your expense, to a new address which will be supplied. I enclose order which includes at least 50/- value of Ker-nak.

Yours truly,

Signature _____

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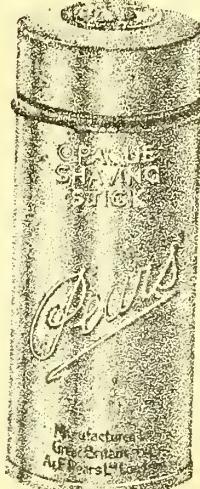
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QUININE

MAARSEN

QUININE and QUININE SALTS.

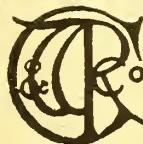
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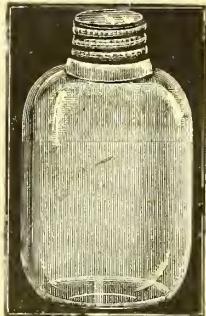
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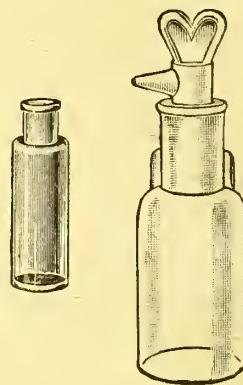
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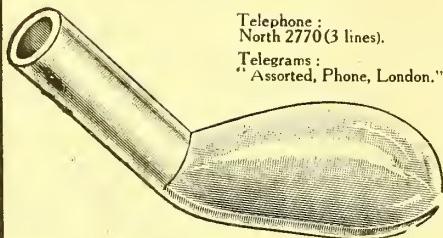
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GLASS FUNNELS and
TABLET BOTTLES

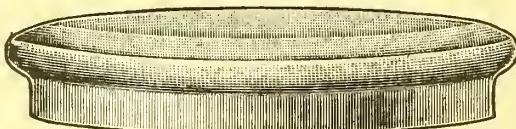
PLATE & SHEET **GLASS** OF EVERY Description.

Plate Glass with Polished Edges for Surgical Tables, &c.

GLASS SHELVES, MIRRORS, &c.
Bevelling, Polishing, Silvering, Glazing, &c. &c.

JOHN M. **NEWTON & SONS, LTD.**

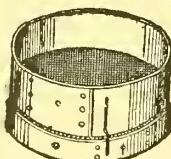
20, 21, 22 & 23 Charles St., Hatton Garden, London, E.C.1



CELLULOID CAPS

for Pots and Bottles.
F. W. DUROSE,

45 Queen Street, SMETHWICK, BIRMINGHAM.
Telegrams : "Durose Smethwick."



For your Sieves and Wire Gauze try the actual Makers !

S. RAMSEY & CO.,
198/202 ST. JOHN STREET, E.C. 1.

Telegrams : "Methodical, Smith, London."

Telephone : Holborn 6337 (3 lines).

**SAVE 3/- PER GALLON
BY BUYING
GUARANTEED GENUINE
NEWFOUNDLAND NON-FREEZING
MEDICINAL COD LIVER OIL
OF NEW SEASON'S MAKE.**

Highest possible quality in smell, taste and colour, comparing most favourably with the finest Norwegian. Manufactured from the finest fresh Cod Liver on same day as fish caught.

WHOLESALE ONLY.

Kindly write for sample to

JOB BROS., Manufacturers, Tower Building, LIVERPOOL.

Telegraphic Address: "JOB LIVERPOOL" Tel. 1039 CENTRAL.

And of ST. JOHN'S, N.F.

Established 1780.



"John Bull"

MALT EXTRACT

IS THE BEST!!!

RENOWNED FOR KEEPING QUALITIES

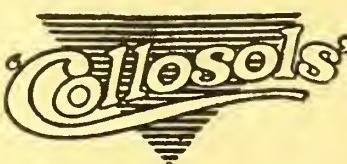
Wholesale & Export Only.

PAINÉ & CO., LTD., ST. NEOTS, HUNTS.

ALL REACTIONS of the body fluids and tissues are COLLOIDAL.

CROOKES'

"Collosols" are pure and stable colloidal solutions, isotonic and isomorphic with the elements of the body.



"Collosols" are tested by ultramicroscopic bacteriological and clinical experiment.

The attention of Pharmacists is specially invited to the **SECOND REPORT on COLLOID CHEMISTRY** just published by the **BRITISH ASSOCIATION for the ADVANCEMENT of SCIENCE** and issued by the

DEPARTMENT of SCIENTIFIC and INDUSTRIAL RESEARCH for information on the extreme importance of colloids in Physiology and their application in Disease. In that report will be found the confirmation of the value in therapeutics of the **COLLOSOLS** of

**IODINE,
SULPHUR,
ARGENTUM,
IRON,
COPPER,
ARSENIC,
MERCURY,
PALLADIUM,
and
MANGANESE.**

Particulars, Literature, and Reports from—

THE CROOKES LABORATORIES,
22 Chenies Street, Tottenham Court Road, LONDON, W.C.1
Telephone: MUSEUM 3663.

M^AW'S PAGE

No. 405

JULY 19, 1919.

ORDER
AT ONCE.

The following selection of holiday requisites are very much in demand. THEY WILL INFUSE THE WINDOW WITH THE RIGHT "TOPICAL" TOUCH AND INCREASE WEEKLY PROFITS.

Travelling Cases

No matter what the weather, of holiday-makers set forth to sea-shore and country with a contented heart and happy relief from the handicap of business.

The following Suit and Attaché Cases should find favour with many whose present equipment has become shabby during the years of War.

These fine patterns are excellently made in every way, strong enough to stand hard wear, yet light enough to ensure freedom from fatigue. They can all be supplied from stock.

Solid Leather Attaché Cases	... 14 in.	28/-	16 in.	3/2/-	18 in.	36/- each		
Super Quality	... 14 "	35/-	16 "	40/-	18 "	45/- "		
Leather Suit Cases	... 12 in.	10/6	14 "	12/3	16 "	14/-	18 "	84/- "
Rexine Attaché Cases	... 12 in.	10/6	14 "	12/3	16 "	14/-	18 "	15/9 "
" Suit Cases	... 12 in.	10/6	14 "	12/3	16 "	14/-	18 "	45/- each.

Sponge Bags and Holdalls

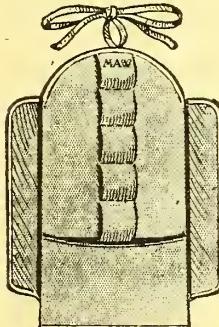


A SELECTION OF THESE EVER-SEASONABLE REQUISITES.

"SYLPH"	... ...	from 10/- to 22/- per doz.
"BOUDOIR"	... ...	12/- to 28/- "
"SANDHURST"	... ...	12/- to 30/- "
"PRUDENCE"	... ...	10/- to 23/- "
"RELIABLE"	... ...	12/- to 28/- "
"INDIAN CLOTH"	... ...	10/- to 24/- "
"PURE GUM"	... ...	14/- to 34/- "
"FANCY ASSORTED"	... ...	10/6 to 26/- "
"LUCENT"	... ...	11/- to 27/- "
"NEW KHAKI"	... ...	11/- to 23/- "

CHECK PATTERNS.

10/C2	Cheap Check	... 12/- per doz.
13/C2	Check Cambric	30/- ..
14/C2	Fancy Floral	30/- ..
16/C2	Best Check	30/- ..
19/C2	Fancy Floral	40/- ..
18/C2	D.P. Grey, "Prudence"	45/- ..
22/C2	Fancy Floral, ex. large	66/-,-,

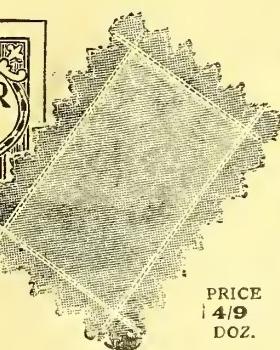


Antignat Powder Sachet

Holiday folk and others harassed by the unwelcome attention of insects will appreciate this line.

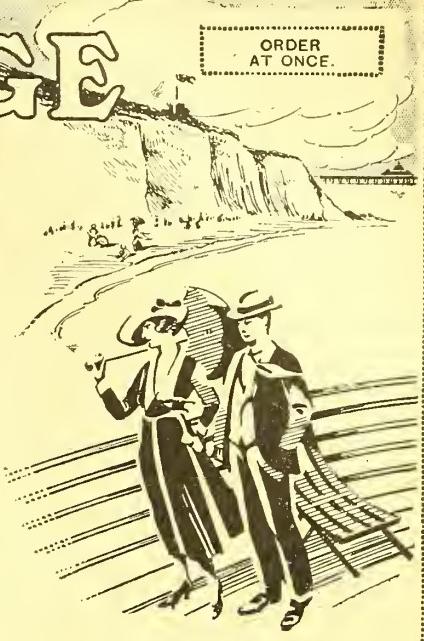
For the prevention of midge, mosquito and other insect bites, Maw's Antignat Powder Sachet is most useful preventative.

The impregnated Sachet is put up in neat envelopes as illustrated. The exposed parts of the face, neck, and any exposed-parts should be dusted with the preparation after washing, or at any time. For the sake of the comfort gained customers do not mind the expenditure of a few pence on one of these Sachets. Try a display on the counter.



PRICE
14/-
DOZ.

S. MAW, SON & SONS, LTD., 7-12 ALDERSGATE STREET, LONDON, E.C.1, ENGLAND.



Bathing Caps

Orders should be sent without delay for early delivery. Here is an abbreviated list:

Circular pattern	... ...	9/- to 16/6 doz.
Fancy styles (proofed material)	15/- to 20/- ..	
Oiled silk Caps	... ...	24/- to 36/- ..
Oiled cotton, flat circular	... ...	20/- ..
Stout india-rubber, stockinette bound	... ...	30/- to 36/- ..
Fancy india-rubber	... ...	18/- to 34/- ..

Vacuum

Flasks

Swiss make. Leatherette body, aluminium shoulder and cap, detachable aluminium screw base. Vacuum bottle supported on special spring clip. Refills 5/- each, 6d. extra for fitting if sent to us for that purpose.

Price 8/9 each

By one dozen.
8/3 each, subject.

Special Net Prices for quantities taken at Customer's risk of breakage in transit—

3 dozen	... ...	7/6 each net.
6 "	... ...	7/3 " "

A New Source of INCOME
for enterprising Chemists.

“PREEMO”

CONCENTRATED ESSENCES,
FLORAL OTTOS AND COMPOUNDS

are specially distilled and compounded for the purpose of making all kinds of High-class Toilet Preparations, and the manufacture of these is rendered so simple that any Chemist without previous experience in this line can make and bottle a variety of Lotions, Hairwashes, Perfumes, etc., with the greatest ease and success.

These preparations are far superior to proprietary lines, and yield 4 or 5 times more profit.

Every Chemist who is interested in this money-making suggestion should

Write at once for Free Samples

which we gladly send to all bona-fide inquiries.



*Imitated
by many—*

*Equalled
by none.*

“Preemo” Essences.

Nos. 2,000, 3,000 and 4,000 “Preemo” Essences 12/6 per 100 grams (equal 3½ ounces). £6 per kilo (equal to 36 ounces).

No. 5,000 ditto, 25/- per 100 grams. No. 7,000 ditto, from 45/- per 100 grams.
Special Quotations for large quantities.

The “PREEMO” Concentre & Essential Oil Co.,
63 High Holborn, LONDON, W.C.1

Holborn 3095.

Tel. Address: “Appreemona, Holb, London.”

The Easiness of “DISTOL” OTTOS

To 2 drams of any “Distol”
add S.V.R. and Aqua Dest.
to make up to One Pint

□ □

— and that's all !

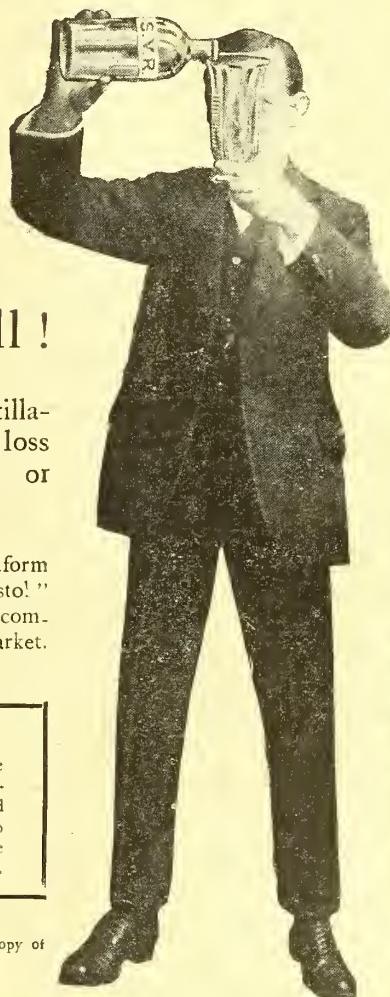
No filtering, blending, tinting, or distillation ; no mess or waste of time ; no loss from deterioration ; no locking-up or expensive stocks of S.V.R.

There are 34 “Distols” retailing at the uniform price of 6/- per oz. net. An ounce of any “Distol” makes 80 oz. of choice perfumery which will compete with the most expensive brands on the market.

“Distols” and Spirit Economy.

The more the spirit duty rises the stronger becomes the case for “Distol” Ottos, first because “Distol” perfumery can be made in small quantities as required, and secondly because most “Distols” lend themselves to considerable dilution with Aqua Dest. (up to 50% in some cases) without loss of their distinctive characteristics.

Ask for free samples of perfumes made from any six “Distols” with copy of the current issue of the “Distol” Review—“Profitable Perfumery.”



THOMAS KERFOOT & CO LTD,
BARDSTWELL VALE, LANCASHIRE,
& Bardsley House, London, N.1
ESTABLISHED 1767.

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Summertime!

HERE is magic in the word as well as in the scene which it conjures up. Ages have passed since the fateful summer of 1914; cut off so abruptly by the dread spectre of war. Since then summers have come and gone almost unrecognised. Today the pulses leap and the heart rejoices at the proximity of a real summer, and the parental determination to "take the family away" for the summer holiday is strong and not to be denied. The Pharmacist in seaside and country pleasure resorts is rightly anticipating a bumper season.

Midgley's Sunburn Soap is just the line to attract visitors to your Pharmacy. It relieves the painful sensation of Sunburn, and prevents the skin peeling.

Midgley's Peroxide Soap and Cream are "seasonable" lines which make a strong appeal, being got up in artistic wedgewood blue cartons. Both preparations are charged with an active percentage of peroxide, preventing and removing tan and freckles from the skin.

WINDOW DISPLAY OFFER.

For an order of £4 in value and over, which may be assorted, we will give 13 to the dozen, together with a good supply of coloured leaflets, "Vitalising the Skin," and showcards, and cash allowance for window display of 5/-.

USE THIS FORM.

To CHARLES MIDGLEY, LIMITED,
5, Mayes Street, Manchester.

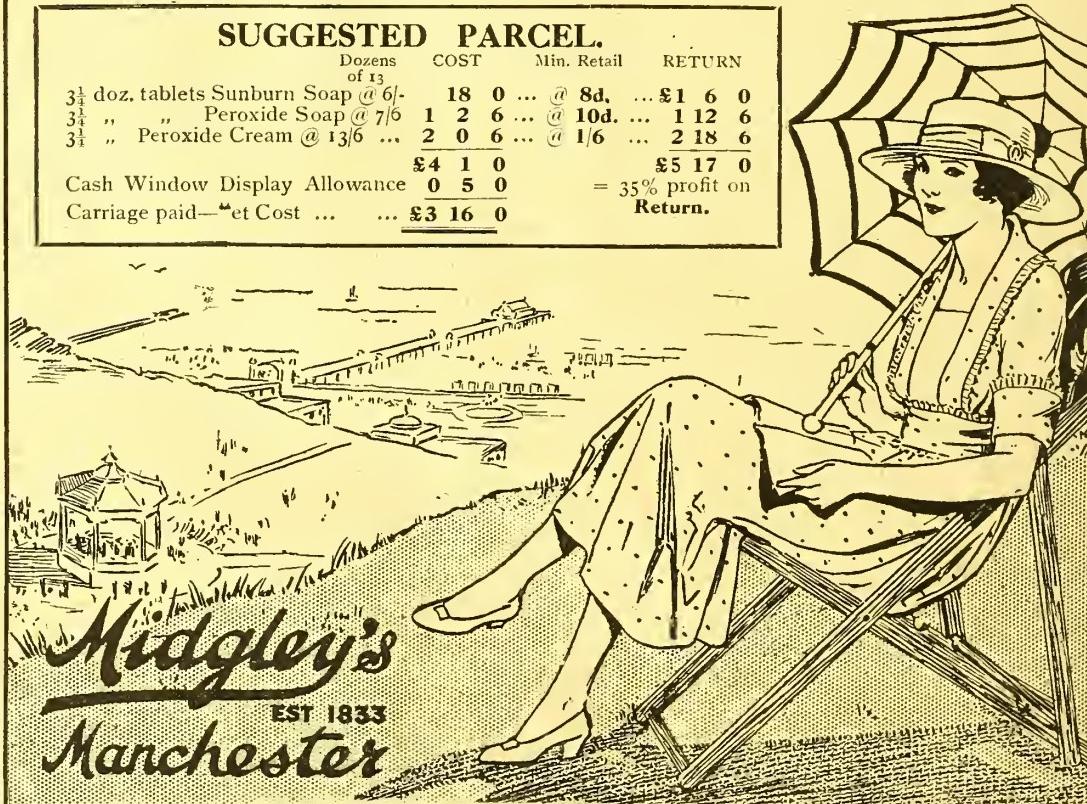
Please send your suggested parcel,
for which I enclose cheque
(Strike out whichever does not apply)

Slip label may be affixed. Name
Address

SUGGESTED PARCEL.

Dozens of 13	COST	Min. Retail	RETURN
3½ doz. tablets Sunburn Soap @ 6/-	18 0	... @ 8d. ...	£1 6 0
3½ " Peroxide Soap @ 7½	1 2 6	... @ 10d. ...	1 12 6
3½ " Peroxide Cream @ 13½	2 0 6	... @ 1/6	2 18 6
	£4 1 0		£5 17 0
Cash Window Display Allowance	0 5 0		= 35% profit on Return.
Carriage paid—Net Cost	... £3 16 0		

Midgley's
EST 1833
Manchester



French Perfumes and Toilet Articles.

PAGE 15
AYRTON'S

In pursuance of our usual policy of offering perfect products, we have concluded an arrangement with Messieurs. Salmon & Chancy of Paris, whereby we are appointed their Sole Wholesale Agents for Gt. Britain and Ireland.

We hold Stocks of the following exquisitely packed Preparations, each of which is characterised by that superb delicacy of design and idea that is the forte of the French :—



Where there is a cultivated taste these very delightful goods will be appreciated !

Perfumes

					Per dozen.
Extrait Petite Reine	-	-	-	-	36/-
Bledys	-	-	-	-	42/-
Velyla	-	-	-	-	72/-

Hair Wash

Le Cynemol	-	-	-	-	30/-
------------	---	---	---	---	------

Face Powders, Assorted Tints

Petite Reine	-	-	-	-	32/-
Bledys	-	-	-	-	30/-
Velyla	-	-	-	-	25/-

Ayrtон, Saunders & Co. Ltd.
LIVERPOOL

— SICILIAN —
LEMON - BERGAMOT
ORANGE - MANDARINE.
— SPINELLI —

THE OILS THAT HAVE A LONG
REPUTATION FOR QUALITY.

In the manufacture of our Terpeneless Oils it was imperative that we secured the very finest Sicilian Oils to work upon. After several exhaustive tests we came to the conclusion that "SPINELLI" brand of Sicilian Oils gave us the best results. As we were able to place large orders for our own needs with the manufacturers, we have pleasure in stating that they have entrusted us with their British Agency, and we offer to users of Sicilian Oils the benefit of our experience. There is quality in every package. Guaranteed Genuine Oils of authentic origin, and to conform to any :: :: :: analysis as to purity. :: :: ::

HOLLANDS DISTILLERY LTD.
Lavington Street, Southwark, LONDON, S.E. 1

A B C Code, 5th Edition
Western Union.

Telegrams: "LANDSLOH, LONDON."
Telephone: HOP 898.

AMERICAN AGENTS—O. A. BROWN CO., INC., 99-101 Beekman Street, NEW YORK.
CANADIAN AGENTS—F. S. JARVIS & CO., 18 Toronto Street, TORONTO.

TERPENELESS OILS

BRITISH MADE.

We manufacture exclusively ourselves all kinds of Terpeneless Oils, and invite inquiries from users throughout the World.

WE SPECIALISE IN TERPENELESS:

Anise (Anethol)

Bay

Bergamot

Caraway

Cassia

Cinnamon

Clove

Dill



Geranium

Ginger

Juniper Berry

Lavender

Lemon

Limes

CITRAL

EUCALYPTOL



Mandarin

Nutmeg

Orange

Peppermint

Petitgrain

Rosemary

**CINNAMIC
ALDEHYDE
GERANIOL**



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RAYMET HENNA and QUININE SHAMPOOS

**45% PROFIT ON TURNOVER on
an Advertised P.A.T.A. Article**

AND A

14-ct. gold nib FOUNTAIN PEN FREE

To enable us to get the full benefit of our advertising, we make this Special Offer:

Send us an order on your Wholesaler for

1 gross 3d. Raymet Shampoos at 20/- gross

AND WE WILL SEND YOU A

14-ct. gold nib FOUNTAIN PEN (equal to those usually sold at 10/6) FREE

The only condition being that you display one of the attractive outers in your window for two weeks.

Raymet Shampoos are being extensively advertised in the leading periodicals. The public want them and purchase readily—we have already had many proofs of this.

Raymet Shampoos are One of the Quickest Selling Lines ever produced—they are most attractively packed in 6 dozen "Sales Compelling" outers, delightfully perfumed, and sold at a popular price. These features ensure the first sales. The quality of Raymet Shampoos brings the repeat orders.

The above offer is made for a limited time only, and not more than one pen can be sent to any one address.

If goods are required to be sent direct, remittance value 20/- must accompany order.

Attach this form to your letter-heading and post to us. $\frac{1}{2}d.$ stamp only required.

To RAYMET & CO., Ltd., 507-509 Harrow Rd., W. 10.
Please send through

Messrs.

1 gross Raymet Shampoos at 20/-

I We undertake to display one of the outers in the window for two weeks, on condition that you send me us a 14-ct. gold nib Fountain Pen Free of Charge.

State whether fine, medium, or broad nib is required.

RAYMET & CO., Limited

507-509 Harrow Road

LONDON, W. 10

IT IS GOOD BUSINESS TO SHOW

POUDRE IMPERIA COMPACTE

Suggest
to your
DARK
customers
RACHEL
and
ROUGE
BRUNETTE
for
attractive
results.



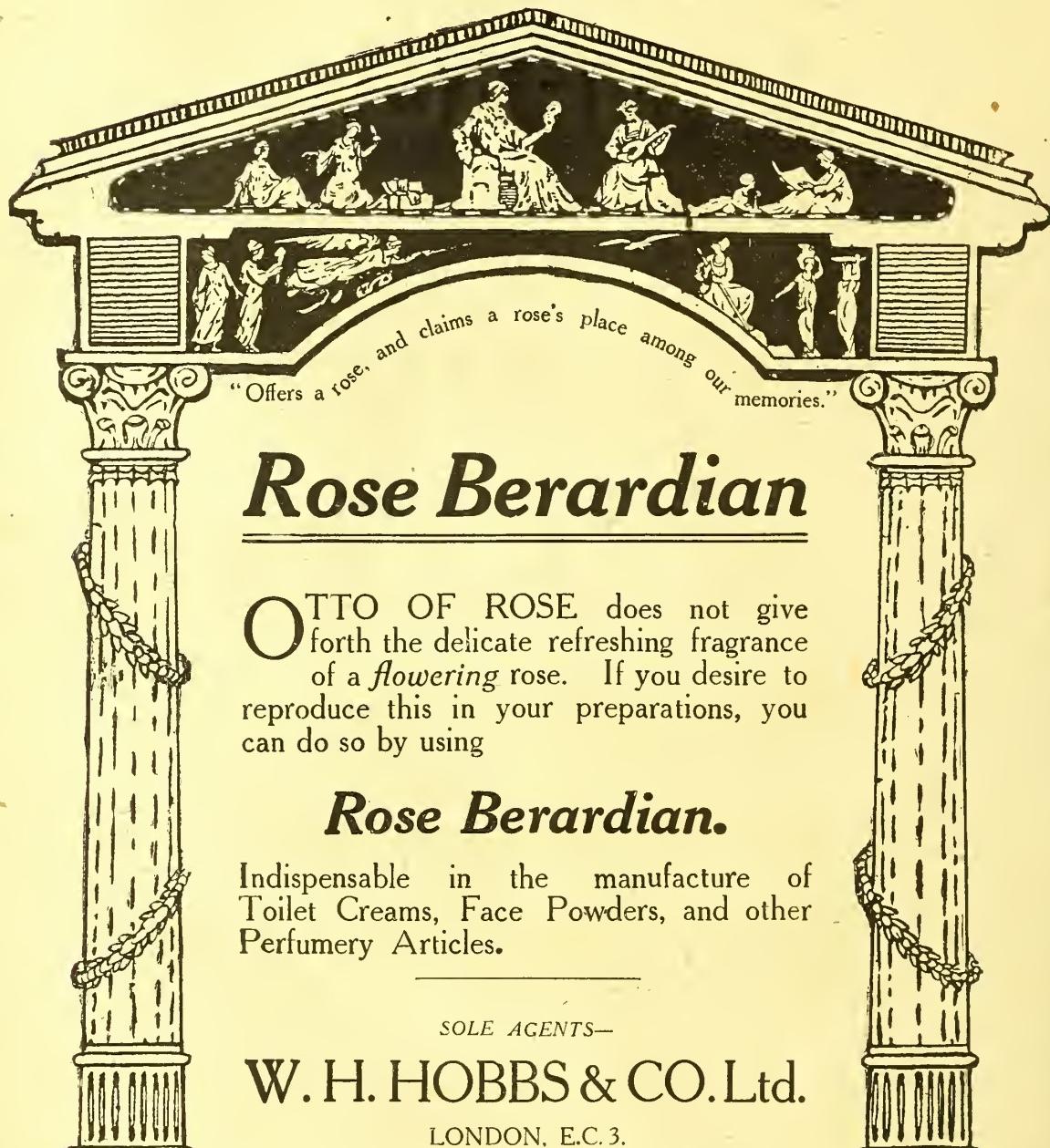
Recommend
your FAIR
customers
to buy
ROUGE
BRUNETTE
and
NATURELLE
the two
combined
produce
most artistic
effects.

FACSIMILE OF SHOWCARD—
ONE OF OUR SELLING HELPS.

P.160/1	... 6/6 per doz.	... Retails 1/-
P.160/2, with Mirror,	7/6 per doz.	... " 1/3

THE EMPIRE PERFUMERY Co.
(Cuxson, Gerrard & Co. Ltd., Proprietors)
OLDBURY, ENG.

EXPORT AND COLONIAL INQUIRIES INVITED.



OTTO OF ROSE does not give forth the delicate refreshing fragrance of a *flowering* rose. If you desire to reproduce this in your preparations, you can do so by using

Rose Berardian.

Indispensable in the manufacture of Toilet Creams, Face Powders, and other Perfumery Articles.

SOLE AGENTS—

W. H. HOBBS & CO. Ltd.

LONDON, E.C. 3.

Telegrams:
"Gingerade, Fen, London."

Telephones:
Avenue 666 and 1544

ESSENTIAL OILS and PERFUMERY MATERIALS.

A DAINTY BRITISH PERFUME
OF WONDERFUL FRAGRANCE

POTTER & MOORE'S
MITCHAM
LAVENDER WATER

Established - 1749.

PRICES PROTECTED
UNDER THE P.A.T.A.

Sole Proprietors:-

W. J. BUSH & CO., LTD.

Ash Grove, Hackney, London, N.E.
DISTILLERY — MITCHAM, SURREY.

Lescol Perfumery

NOTICE.

New and attractive lines will be brought out shortly, and an illustrated catalogue sent out. In the meantime we will send on application a supplementary list of lines in stock, popular in price and advantageous in sale.

We can also offer to advantage Perfumery in Bulk in two qualities—Essential Oils of guaranteed purity; Floral Ottos for Cachous, &c.; Fruit and Soluble Essences, Chemicals, &c.

THE LONDON ESSENCE CO., Ltd.

(Proprietors of THE LESCOL PERFUMERY CO.)

Lomond Grove, Camberwell, LONDON, S.E. 5.

Telephone: 810 HOP.

Telegrams: "VANILLIN, CAMBER, LONDON."

Natural Essence
of Peppermint.

DELECTA

Twice Rectified.
French Manufacture.

The best for Confectionery and for makers of Dentifrices, Peppermint Essence, &c.

M. GILBERT, VINCENNES (SEINE).

Selling Agent for the entire World.

TO USERS and DEALERS in METH. SPIRIT and SPIRIT OF WINE.
FOR QUOTATIONS apply to—

PRESTON'S LIVERPOOL DISTILLERY CO. LTD.

The Largest Makers in the Kingdom,
BANKHALL DISTILLERY, SANDHILLS, LIVERPOOL. Office: 4 India B'ngs, Water St., Liverpool.

F. M. RUDD,
Bronson,
MICHIGAN,
U.S.A.

GENUINE AMERICAN PEPPERMINT OIL

"Columbia" Natural
"Diamond White"
Re-distilled.

Finest qualities for Druggists,
Distillers and Confectioners.

Sole Consignees in United Kingdom—
R. W. GREEFF & CO.
Thames House,
Queen St. Place, LONDON, E.C.

CHEMICALS DYES ESSENTIAL OILS

For the Toilet and
Perfumery Trades

EUDERMINE CO., LTD.
79 COLEMAN STREET, LONDON, E.C. 2.

Revised
Prices
May 1919.

LUCE'S

ORIGINAL Jersey
Eau-de-Cologne
British and Best
P.A.T.A.

No.	Description	Minimum Retail	Dozen	No.	Description	Minimum Retail	Dozen
27	1 oz. Round	2/-	18/-	20	20 oz. Barrel	32/6	288/-
30	2 oz. Flask	3/6	31/6	4W	4 oz. Wicker	7/9	70/-
1	2 oz. Sexangle	3/6	31/6	8W	8 oz. Wicker	15/-	135/-
3	4 oz. Square	6/6	58/6	16W	16 oz. Wicker	27/6	240/-
5A	8 oz. Barrel	12/6	113/-				

Special Window Display Bonus shows 33½% Profit.

J. C. GAMBLIES & CO., 46 Farringdon St., London, E.C.4.

SALES
BEAT ALL RECORDS.

INDIAN PERFUME BRICK
KEEPS AWAY MOTH.
LASTING & FRAGRANT.

PERFUME
BRICK

FOR LINEN CUPBOARD AND WARDROBE.

Retail Price, 6d.

Of the Makers:

ALBERT WILLIS & ARTHUR, Ltd.
6 Mortimer St., London, W.
AND ALL WHOLESALERS.

ZENOPIA
LIMITED

regret to announce that in consequence of the recent extremely heavy advance in the cost of Raw Soap, they have been compelled to raise the prices of their

FINE TOILET SOAPS

as follows:

Boxes of 3 Tablets.

Old Price	...	...	...	New Price
1/7	...	...	...	1/9
2/3	...	...	...	2/6
3/6	...	...	...	3/9
4/3	...	...	...	4/6

The Trade Prices will be
15/9 22/6 33/9 & 40/6 per doz.
respectively, subject to the usual
discount.

Customers are requested kindly to advance their
selling prices immediately.

LOUGHBOROUGH, July 7, 1919.

IT PAYS to sell "OKOS" Tooth Powder

*A wonderfully fine Tooth Powder
with a refreshing Mint Flavour.*

"OKOS" retails at 7½D. per tin

£3 PER
GROSS

15 DOZEN
to the
GROSS.



To introduce "OKOS" to the Trade, we are offering 15 doz. to the gross, carriage paid, for cash with order, until further notice.

Smaller Orders through your wholesaler.

□

"OKOS" is being well advertised—you are sure to be asked for "OKOS"—don't disappoint a customer, get your stock in NOW. "OKOS" is beautifully put up under attractive labels and cartons, dummies of which we will supply for Window Display on request.

Sole Proprietors—

**THE MIDLAND
WHOLESALE,**

2 Regent Place, Leamington Spa.
London Agent—A. R. ANDREW,
6 LOVE LANE, WOOD STREET, E.C.

This Showcard, printed in five
colours supplied FREE.

H.P.

All Chemists and Stores adjacent to Theatres and Music Halls should stock the famous

LEROZA Theatrical Cold Cream and
Grease Paint Remover.

Used and recommended by all the leading Artistes, including The Two Bobs, Ernie Mayne, Miss Victoria Monks, Shaun Glenville, and scores of others too numerous to mention. Sells at 1/6 per tin box (about 10oz.) costs 12/6 per dozen carriage paid. Cash with order.

From the Sole Inventor and Manufacturer, ARCHIBALD MOLE-FLOYD
The LEROZA THEATRICAL STORES, 71, 73 & 75 Cambridge St., Glasgow.

The Evan-Williams

Always in Great Demand.
Price List on Application.

The Evan-Williams Co., Ltd., 18, Ogle Street, W.I.

**ORIGINAL
HENNA SHAMPOO.**

'Ongard' Guarded Coil
Safety Pins RUST PROOF.

For Surgical & Nursery Purposes.

SOLE MANUFACTURERS
GEORGE GOODMAN LTD.,
BIRMINGHAM.

Stocked by JAMES L. HATRICK & CO., LTD.,
70 St. John St., Clerkenwell Rd., LONDON, E.C.1.



FEATHEREDGE Rubber Sponges

LARGE STOCKS ARRIVING

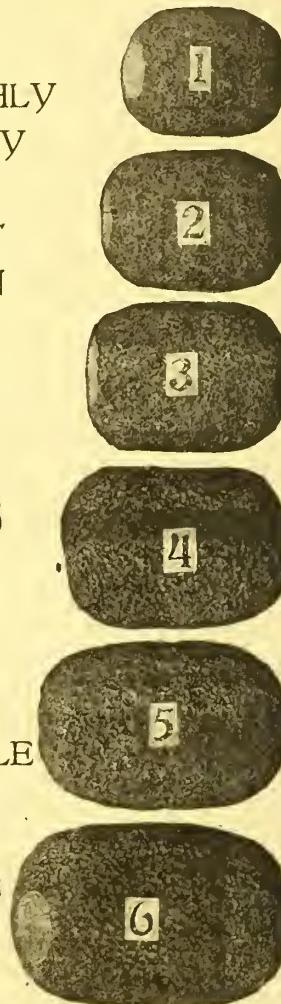
THOROUGHLY
SANITARY
AND
DO NOT
HARDEN

□-

Very
GOOD
PROFITS
for the
Retailer

□-

OBtainable
of ALL
DRUGGISTS'
SUNDRIES
HOUSES



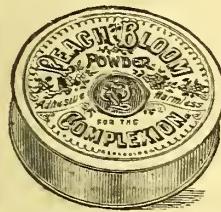
**Markt & Co., London,
LTD.**

American Merchants,
SOLE IMPORTERS,
98-100 CLERKENWELL RD.,
LONDON, E.C.



Whitecross Baby Powder

in smartly decorated tins, with
sprinkler and dome top.
P.A.T.A. 10½d.; 6/- per dozen.



Peach Bloom Face Powder

in various tints.
P.A.T.A. 7½d.;
3/- per dozen.

Whitecross Tooth Powder,

being a first-class article, packed in smartly decorated tins,
two sizes, 3/- and 5/- per dozen.

NOTE—The Whitecross Baby Powder and Tooth Powder have both obtained the Certificate of Merit of the Institute of Hygiene. Moreover, all the above being British goods throughout should be supported in preference to foreign make.

Menthol and Menthol & Eucalyptus Snuff, in special decorated tins. On the P.A.T.A. at 4½d.; 2/- per dozen.

Tooth Paste in collapsible tubes.

All varieties, 5/- and 6/- per dozen; also a special new line "Antiseptic," each in carton, 5/- per dozen.

Lanoline, Oatmeal Cream, Witch Hazel, Antiseptic Honey Jelly, etc., in tubes, 5/- and 6/- per dozen.

Bay Rhum, Bay Rhum & Cantharides, Brilliantine, Cold Cream, Eau de Quinine, and dozens of other lines in Price List, which will be sent free on application.

Decorated Tins and Plain in variety, all sizes, from 2 dr. upwards. Whitecross Ointment Tins, Vaseline, Fuller's Earth, Violet Powder, Tooth Powder, etc., etc.

Ready Again.—Ointment Tins with buyer's name round edge, and plain centre for labels. Write for particulars.

Special discounts to large buyers.

The CHEMISTS' MANUFACTURING Co. Ltd.
with which is incorporated

SHIRLEY BROS.

Whitecross Works, Rockingham Street, S.E. 1



ADVERTISES YOUR SHOP

The Brains behind "Quin-Quenna" are constantly seeking new ways of helping to advertise your shop.

This month we are offering supplies of handy carrier bags, neat wrappings, counter envelopes and fine advertising material free with each half-gross of

Quin-Quenna

"Quin-Quenna" is a preparation made from refined oils and herbs and fine Castille, which going through various treatments finally graduates into wonderful little granules that dissolve in hot water and become at once

**A HAIR CLEANSER
A HAIR BEAUTIFIER
A HAIR GROWER**

**Per Packet, 6d. P.A.T.A.
48/- doz. (2 doz. bonus).**

**Advertised Everywhere—
Needs only showing to sell**

SPECIAL OFFER.

We will send special twin-lidded display box containing $\frac{1}{2}$ -gross "Quin-Quenna" and 1 DOZ. BONUS (selling value 42/-) with all this fine advertising material, post paid for 24/-

Your Profit, 18/- (75%)

CHRISTY'S, OLD SWAN LANE, E.C.



NEW PROPRIETARY

BY

DEARBORN, LTD.

37 Gray's Inn Road, W.C. 1

Haraposa NUT OIL

A Liquid Shampoo.

Trade - - - 22/6 per dozen

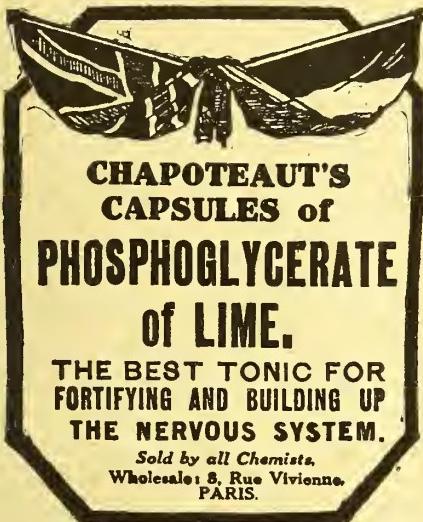
P.A.T.A. - - 2/6 „ package

SALES GUARANTEED BY THE
MANUFACTURERS. NO RISK.

Order Direct or through your Wholesaler.

**LABORATORY
OF GENERAL PHARMACOLOGY,
8, Rue Vivienne, Paris.**

LONDON AGENTS :
WILCOX, JOZEAU & Co., 49, Haymarket, S. W.



MORRHUOL CHAPOTEAUT



CAPSULES

MORRHUOL DE CHAPOTEAUT is extracted from cod-liver oil, and contains all its efficacious properties without the disagreeable taste.

It cures Coughs, Bronchitis and Catarrh, restores the appetite, and gives force to feeble persons.

SOLD BY ALL DRUGGISTS.

CHANDRON'S DROPS

(Gouttes des Colonies)

A harmless antiseptic preventative against CHOLERA-FERMENTATION - INDIGESTION & other intestinal disturbances.

SOLD BY ALL CHEMISTS



I find the often exquisite and
well-chosen scents selected
by Mrs. Garden very sincerely
Mary Garden

PARFUM

MARY GARDEN

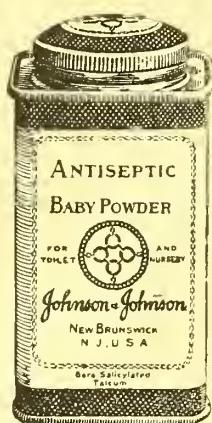
RIGAUD

PARFUMEUR

16, RUE DE LA PAIX,
PARIS.

LONDON AGENTS

HEPPELL & CO., 164, Piccadilly, W.



ANTISEPTIC BABY POWDER

MANUFACTURED BY

Johnson & Johnson.

We wish to warn our Customers, so that they may be on their guard, that our package is being imitated. This step, which is so easy, is an undignified and shabby attempt to rob us of our goodwill.

WARNING.

The contents cannot be imitated, and the Trade Mark cannot be imitated; and we would ask those Customers who have handled this preparation for a quarter of a century, with every satisfaction to themselves and to their clients, to resent this method of copying other firms' productions by insisting on having the original package bearing the registered Trade Mark, which is the guarantee of quality.

JOHN TIMPSON & CO., Ltd.,
104 Golden Lane,
LONDON, E.C.

Look for the
Name and
Trade Mark.



BE SURE AND ADD
La-Rola
Rose Bloom

TO YOUR STOCK AT ONCE,

as it is being largely advertised in the
"Daily Mail," "Mirror," "Sketch," etc.

**Do not lose the business
through being out of stock.**

It is the most natural tint on the market,
and is selling well wherever introduced.

Lait La-Rola & Glycerine & Cucumber
supplied as usual.

All these articles are protected at FACE VALUE.
Write for Display Terms and save 10%.

M. BEETHAM & SON, Cheltenham.

"Strodonia" VANISHING CREAM

For displaying a small showcard, we make the following offer
on INITIAL DIRECT ORDERS (One parcel only):—

1½ dozen	7½ d.	SELLING FOR	11 3
24 "	1/-	"	9 0

For 10/- cash with order, carriage paid. 20 3
7½ d. and 1/- — — 5/6 and 9/- per dozen.

From London Wholesalers.
Direct Orders value £5 subject to 10% discount and
1 doz. 1/- size bonus for window display, showing
38% on Turnover.

STRODE COSH & PENFOLD, Manufacturing Chemists, LOWER UNION ST., BRISTOL.

RADIUM COMPOUND. SELF-LUMINOUS.

Highest Possible Efficiency, Durability & Value.

As supplied to H.M. Government, &c.

Guaranteed to pass N.P.L. requirements.

All Grades in stock, from 15/- per gram.

RADIUM SALTS TESTED AND CERTIFIED.

F. HARRISON GLEW, THE RADIUM LABORATORY
156 Clapham Road, London, S.W.

OWING to the cost of Raw Materials having advanced very considerably, we are compelled to increase the prices of

"Peerless" & "Elite" ERASMIC SOAPS

The retail price is now

6½d. per tablet. **1/7½** per box.

"ERASMIC," Perfumers, WARRINGTON

Ingram's MILKWEED CREAM

Has been CONSISTENTLY ADVERTISED in the best AMERICAN and CANADIAN PERIODICALS for twenty-five years.

A Medicinal Toilet Cream with a world-wide demand that is rapidly increasing. Two sizes : 2/-, per dozen 16/-; 4/-, per dozen 32/- Prepaid Parcel Post to Great Britain and her Asiatic and African Colonies. Samples and store displays free with every order.

Introductory Offer. Cost £2 ; Retails 60/-—Profit 20/-.

½ Doz.	Ingram's Milkweed Cream	... ...	Retails 2/-	Price 8/-
½ Doz.	" Velveola Souveraine (Face Powder)	,,	2/-	8/-
½ Doz.	" Zodenta Paste for the Teeth	,,	1/-	4/-
½ Doz.	" Rouge, Light, Medium, Dark	,,	2/-	4/-
½ Doz.	" Perfume, 1 oz. assorted in fancy packages	... ... ,	4/-	16/-
				£2
	100 Guest Room Packages free.			

Shipped via Parcel Post Prepaid.

Send us with your order the names of 100 of your lady customers, and we will mail each of them a handsome folder, inviting them to call at your store and get our Guest Room Package free, containing one each of the above in sample sizes, including Perfume.

If more convenient to you, specify shipments from our Canadian Plant.

FREDERICK F. INGRAM COMPANY (Established 1885).
411 Lafayette Boulevard, Detroit, U.S.A. Canadian Plant: Windsor, Ont.



Twenty-five years' continuous advertising has made this trade mark known wherever American and Canadian publications are read.

Bay Rum, Rosemary & Cantharidine

ADMITTED TO BE

**THE MOST EFFECTIVE FORMULA
THE MOST ATTRACTIVELY GOT-UP
THE BEST VALUE**

8-oz. Bottles (Sprinkler Stoppers) 8/6 doz., 99/- gross, carriage paid.

Own Name and Address.

Showcards Supplied.

SPECIAL OFFER.

With every order for One Gross we will send FREE half a gross Shampoo Powders bearing your name and address.

SEND YOUR ORDER—NOW!

CARMOL LTD., Washington Street, BIRMINGHAM.

Telephone : Midland 1852.

PURE SPANISH ESSENTIAL OILS

(LONABARC BRAND).

ROSEMARY

LAVENDER

GERANIUM

PENNYROYAL

THYME (RED & WHITE)

SAGE

FENNEL (SWEET & BITTER)

ORANGE

LEMON

THYMOL

ACONITE ROOT

GENTIAN ROOT

LAVENDER FLOWERS

QUINCE SEEDS

Write for samples and prices to LONABARC TRADING CO., LTD., 60 FORE ST., E.C. 2

“Lanzone” Lanolin

The Odourless Adeps Lanæ, B.P. Manufactured by

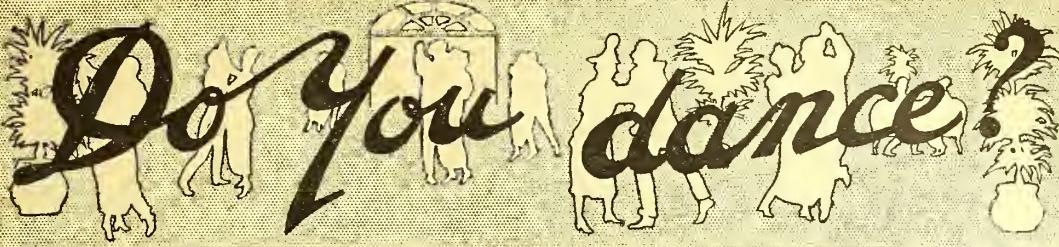
THE LONDON PHARMACEUTICAL REFINERS, LIMITED,
Martin's Yard, Endwell Road — LONDON, S.E. 4.

In a leading article in the “Medical Press” of June 26, 1918, occurs the following :—

“I hope that the same effort will be made to abolish Hun drugs as to get rid of Hun dyes. In one direction I am glad to find that this is being seriously attempted. One of the most important bases for ointments is lanoline. Now the English lanoline which is made by the London Pharmaceutical Refiners, Limited, of Brockley, has the merit of being superior to the old German lanoline. The B.P. allowance of fatty acids is 7%, whereas this new English lanoline shows only 2%. The new preparation is quite odourless, and acid fats do not develop in it by keeping. These are great merits, and show the extreme care with which the refining process has been carried out by the British refiners.”

Samples and Quotations from the Selling Agents :

THE PRODUCE BROKERS' COMPANY, LIMITED, 24 St. Mary Axe, LONDON, E.C. 3.



**A Medical opinion of
DULC-O-DO.**

"I have tried Dulc-o-do in cases of excessive perspiration of feet, axilla, etc., and it has succeeded after Formalin, Belladonna, etc., have signally failed. I myself have suffered from excessive perspiration in the axilla, due to Malaria, which I got in India several years ago. I have also tried it, and it has completely relieved the condition. It seems to me a most excellent preparation."—Dr. H. M. B. Ch. B.

This design is appearing in the ladies' papers, and is our coloured Showcard reduced. There is a big demand for this harmless Toilet Water which corrects perspiration troubles, and makes dress shields unnecessary. Approved by the medical profession. Send 20/- for a sample dozen and watch the rapid sales.

Bonus of 3 with 3 dozen lots.

Minimum Retail Price 2/6

**SCOTT'S CHEMICAL CO., LTD.,
47 HUDDLESTONE ROAD, WILLESDEN GREEN, N.W.2**

Dulc-o-do

The Harmless
Toilet Water
for
**EXCESSIVE
PERSPIRATION**



**OVER 100 % PROFIT
ENSURED & PROTECTED (P.A.T.A.)**
for sellers of

Laurence's Hair Dyes

One solution, nine shades.

A first-class article with an excellent demand, created entirely on its own merits, and carrying a first-class profit.

Size.	Minimum retail.	Minimum wholesale.	
1/-	1/-	7/6	
1/6	1/6	9/-	per doz.
2/6	2/6	15/-	less 5% discount.
3/6	3/6	21/-	

SPECIAL BONUS

Buyers of 3 doz. bottles receive 3 bottles gratis (may be assorted and any size).

Do. 6 doz. do. 8 bottles gratis.

Do. 12 doz. do. 18 bottles gratis.

Equivalent in the case of the size in most general demand, viz. 1/6 size, to 4/6, 12/- and 27/- respectively.

SOLE PROPRIETORS—

**C. R. HARKER, STAGG & MORGAN,
LTD.**

DEVON WHARF,

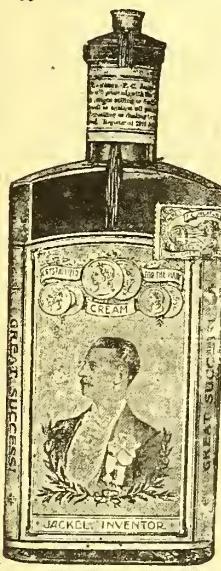
Emmott Street, Mile End, London, E.1.

"Jackel's Cream"

(without Grease)
for THE HAIR

Sold everywhere

Established 1883.



"Jackel's Cream" fixes the hair in any desired position; is unexcelled as a dressing and does not soil the headware. It removes Scurf and Dandruff, keeps the scalp healthy, and promotes the natural growth of the hair while maintaining its softness and brilliancy.

Prices for Wholesale and Export Houses on application.

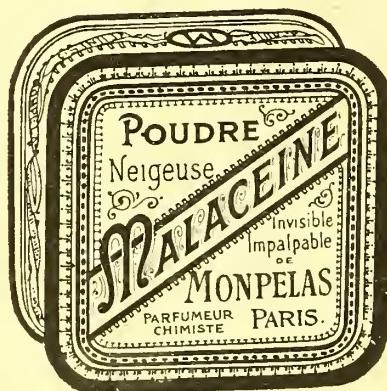
**Jackel et Cie (of Paris)
Ltd.**

Sauchiehall Street
GLASGOW

CRYSTALLISED
1/6 CREAM 2/6
Trade Mark attached to each bottle.

POUDRE MALACEINE

MANUFACTURED BY
**PARFUMERIE MONPELAS,
PARIS.**



No. 67, Small ... 25/- doz.
,, 68, Large 35/- doz.

An extensive Advertising Campaign in all the principal Society Journals is now proceeding.

Write for SPECIAL TERMS and particulars of other MALACEINE PRODUCTS to the Sole Wholesale Agents for Great Britain and Ireland:

WILLIAM TOOGOOD, LTD.
77 Southwark Street,
LONDON, S.E.1.

BRITISH ODOL

Send for Price
List and Trading
Terms.

<i>Revised Retail Prices.</i>
Grand Double Flask
5/3
Full-size Bottle
3/-
Half-size Bottle
1/9



ODOL
Chemical Works,
BERKHAMSTED.

"Newbery's"
FRANCIS NEWBERY & SONS LTD.

"A1" SHAVING CREAM

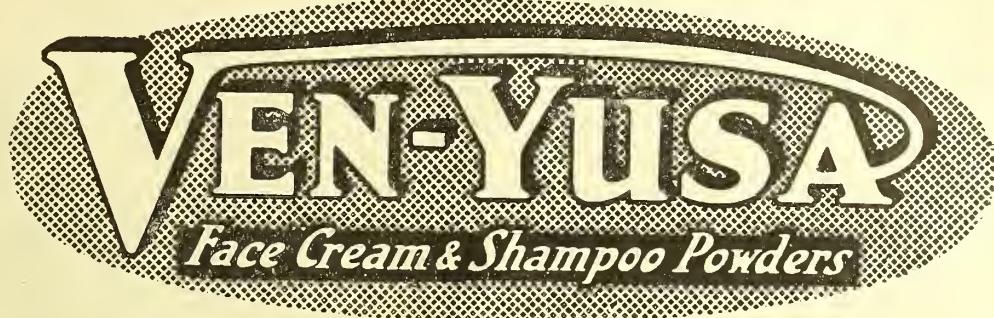
UNDER ROYAL, NAVAL &
MILITARY PATRONAGE.

This High-Class Shaving Cream will appeal to the elite of your Customers.

Add to your Stock a few A1
Shaving Cream and be wise.

18/- per dozen.

CHARTERHOUSE SQUARE,
LONDON, E.C. 1.



SPECIAL WINDOW-SHOW OFFER

YOU purchase an assorted parcel of Ven-Yusa
Cream Soap, and Shampoo Powders value
WE allow you for Showing Cards

£	2	10	0
0	5	9	

Net Credit Terms
IF CASH ENCLOSED deduct $2\frac{1}{2}$ per cent. ...

£	2	4	3
0	1	3	

Net amount to send

£	2	3	0
----------	----------	----------	----------

YOUR PROFIT on the Investment will be 50%

Larger Orders are accepted on pro-rata terms, $2\frac{1}{2}\%$ extra allowed
on orders of 12 times above quantities, if cash with order.

MINIMUM PRICES FACE VALUE.

ORDER FORM.

To Messrs. C. E. FULFORD, LTD., Carlton Hill, LEEDS.

Date

Dear Sirs,

Please supply on Window-Show Terms—

		£ s. d.
..... Gross.....	Doz. 1/- size Ven-Yusa Cream	... @ 9/3 doz.
..... Gross.....	Doz. 6d. ,,, Soap	... @ 4/6 ,,
..... Gross.....	Doz. 1/6 ,,, Shampoo Powders	13/6 ,, (7 3d. Shampoos in packet)
..... Gross.....	Doz. 3d. packets ,,, Shampoo Powders	22/- gross (6 doz. Cartons only)

Remittance enclosed £ : : £

Name and Address

MINIMUM PRICES FACE VALUE.

Note.—If Cash does not accompany order, references should be given for New A/cs. **Credit Terms are Strictly Net, 30 days.**

CAMEL HAIR PENCILS

ALL SIZES

THROAT BRUSHES

Bent or Straight. Wire or Wooden Handles

IODINE BRUSHES

SHAVING BRUSHES

With Boxwood, Metal or Bone Handles.

LARGE VARIETIES ALWAYS IN STOCK.

Also Puffs and Puff Boxes.

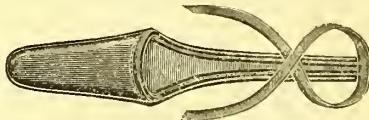
Wholesale & Export only supplied.

A. E. DEPRETER,
24 Holborn LONDON, E.C. 1

Delivery from
LARGE STOCKS **SPRINKLERS**

Sizes ...	13/16	14/16	14/18	16/18
Per gross	6/9	6/9	7/-	7/-

C. A. STOKES & CO., Ltd., Eclipse Works, BRISTOL.



If you look for the best Finger-stall,
ask your Wholesale House for our

'Side Seam' Finger Bandage Cover

It is the right thing & a good seller.
Made in all materials and low-priced.

M. J. FECHER, LTD.

Ilex Works, Norwood Road, STOKE NEWINGTON, N. 16.

PERFUMERS ! SHORTAGE OF LABOUR

Advertisers are prepared to undertake the blending of Shampoo, Tooth, and other Toilet Powders, in large or small quantities at lowest possible rates. Good workmanship and prompt delivery. Ingredients supplied if desired at lowest market prices. Write stating requirements.

MARTIN & CO., 71 City Road, Finsbury, London, E.C. 1.

The Mutual Traders

sell at lowest prices, guaranteed quality, CALL NUTS, LOOFAHS, MENTHOL, DANDELION ROOT, PEPPERMINT OIL, CHILLIES, CAMOMILES, and other DRUGS and natural products.

Sole Export Agents of the NIPPON JOCHUKIKU KAISHA, growers of Pyrethrum Flowers.

The Mutual Brush Company

manufacture and ship all kinds of BRUSHES (both formerly operating as the FUJI BRUSH COMPANY).

BEAR IN MIND THAT WE

1. ARE WHOLLY BRITISH AND AMERICAN.
2. GUARANTEE QUALITY.
3. NEVER FORGET THAT YOUR SATISFACTION MEANS OUR SUCCESS.

Telegraphic Address: "SIMSLAND."

Codes : Bentley's, A B C (5th Ed.), Western Union.
Bank References.

24 Nakayamate Dori, 2 Chome,
KOBE, JAPAN.

Insist on JONES'

Non-Curling
Gummed Papers

for your

Labels.

SAMUEL JONES & CO.

Gummed Paper Makers,
BRIDEWELL PLACE, LONDON, E.C. 4

WHOLESALE.**CONTRACTOR TO
THE WAR OFFICE.****EXPORT.**

ACTUAL MANUFACTURER OF

CAMEL HAIR BRUSHES

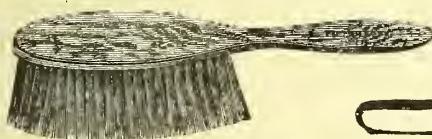
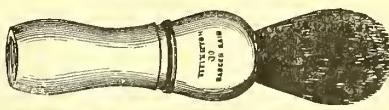
FOR ALL ART AND MEDICAL PURPOSES.

*Throat, Nose and Ear Brushes a Speciality.***PERCY P. BAKER,**

Works: WALTHAMSTOW, ESSEX; and at ISLINGTON, N.

16 CARTHUSIAN STREET,
ALDERSGATE, LONDON, E.C.

TELEPHONE: CITY 362.

Titterton's BrushwareCelebrated
TOILETTITTERTON & HOWARD, Brush Manufacturers, 8 & 10 Great Titchfield St., London, W. 1.
FACTORY: ALBION WORKS, DALSTON LANE, E. 8.

TRADE MARK.



SURGICAL DRESSINGS AND CHEMISTS' SUNDRIES

JUST RECEIVED.

CONSIGNMENTS OF

Tooth Brushes **4/9**
from
dozen.**Hair Brushes** **20/-**
dozen.

EARLY INQUIRIES SOLICITED.

WRITE OR PHONE—

ARTHUR BERTON, LTD.,
*Manufacturers,*Offices and Warehouse: 15-17 Worship Street,
LONDON, E.C. 2.

Telegrams:

"Aybelim, Finsquare, London."

Phones:

London Wall 507, City 998.

BIDWELLS' LTD.**RELIABLE TOOTH BRUSHES.**

Gloria Silverdrawn,	18/-
Mitre - - -	14/-
Elephant - - -	12/-
Anchor - - -	10/-

GROSS LOTS NAMED FREE. CARRIAGE PAID.

We do not Sell Foreign Tooth Brushes.A selected £10 parcel of Hair Brushes
from 30/- to 100/- per doz., carr. paid.

Made at our Factories, AXMINSTER, DEVON.

Surplus

G R
GOVERNMENT
PROPERTY
FOR SALE

*by Direction of the Disposal Board
Ministry of Munitions.*

For detailed list of the
below, and all other
surplus Government
property for sale,
apply for

SURPLUS

(The Official Organ of the
Disposal Board).

Price 3d.

No. 4
Now on Sale.

Obtainable of all News-
agents, Bookstalls, etc.,
or from the Director
of Publicity, Surplus
Government Property
Disposal Board, Arma-
ment Buildings, White-
hall Place, London, S.W.

ARMY HUTS	BUILDING MATERIAL	TIMBER	MACHINE TOOLS
MOTOR LORRIES	ENGINEERS' STORES	MOTOR CARS	BICYCLES
ELECTRICAL MACHINERY AND FITTINGS		FURNITURE	ARMY BOOTS
FACTORIES	DOCK EQUIPMENT	HARDWARE	TEXTILES
CHEMICALS	IRON AND STEEL	FOOD STUFFS	MEDICAL
ARMY HORSES	FACTORY CLOTHING	AEROPLANES	APPLIANCES
ENGINES	RAILWAY MATERIAL	AGRICULTURAL MACHINERY	
	OIL AND COLOUR TRADE SUNDRIES, etc.		

Osmos

The Great British Aperient Water.

Osmos is prescribed by the Medical Profession, and has been found most useful in the treatment of

- Habitual Constipation.
- Liver Congestion.
- Bilious Attacks.
- Obesity.
- Hæmorrhoids.
- Gouty Maladies.
- Complications of Pregnancy and diseases peculiar to women.
- Indiscretions of Diet.

Osmos is on P.A.T.A. list and yields a good profit to the retailer.

Osmos, Crown Wharf, Hayes, Middlesex, England.

LOSALL'S SALT.

OWING to the greatly increased cost in production of this Preparation, Lofthouse & Saltmer, Ltd., beg to advise their customers and the Trade that on and after Thursday, July 17, the Retail and Wholesale Prices will be revised as follows:

4-oz. tins, Retail 10d. net, Wholesale 7/- doz.
8-oz. , , 1/7 , , 13/6 ,
Bottles in Cartons 2/- , , 18/- ,

Monthly accounts, carriage paid on gross quantities of 4-oz. tins or $\frac{1}{2}$ -gross quantities of the other sizes, or on any quantity if included in general drug orders of £5 and upwards.

LOFTHOUSE & SALTMER, Ltd.

Wholesale and Export
Drug Merchants & Manufacturing Chemists,

HULL.

STOVAINE

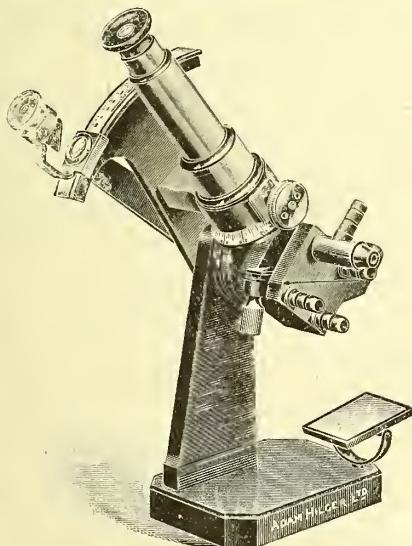
**THE LEAST TOXIC OF LOCAL ANÆSTHETICS
USED IN THE SAME WAY AND AS EFFICACIOUS AS COCAINE**

Does not create a habit and does not give rise to headaches, nausea, vertigo or syncope. :: :: Literature on demand.

NO HOME OFFICE LICENSE REQUIRED

Cheaper than Novocain and Benzocain and obtainable promptly in practically unlimited quantities from the manufacturers:

**LES ETABLISSEMENTS POULENC FRÈRES
— 92, RUE VIEILLE DU TEMPLE, PARIS. —**

THE ABBE REFRACTOMETER

is a valuable aid towards maintaining uniform strength in pharmaceutical products (solutions, syrups, etc.), and much quicker than taking the dried weights or specific gravities.

Delivery in four weeks from receipt of order.

Descriptive Booklet post free on application to the Makers:

ADAM HILGER, LTD.

(Department H)

75a CAMDEN ROAD, LONDON, N.W. 1.

Telephone: NORTH 1677-8.

Telegrams: "SPHERICITY, PHONE, LONDON."

PAPIER POUDRÉ AND "POPPŒA" PREPARATIONS.

TRADE

MARKS

**BRITISH MADE
GOODS**



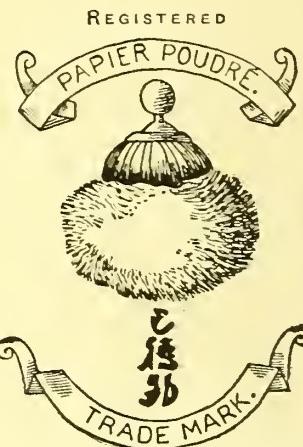
"LEHCARESOR."

Papier Poudré

**Our Sunburn Tint
For Landworkers
and
Seaside Visitors.**

Booklets 8d. & 1/4
5/- & 10/- per dozen net.

Beware of Spurious Imitations.



PAPIER POUDRÉ, LTD.,
20 Baker St., Portman Sq., London, W.
and in Paris.

NOTE OUR TRADE MARKS, AS ABOVE.

NEW PAPIER POUDRÉ PRICES.

WHITE, ROSE, or RACHEL Tints, 4d., 6d., 8d., and 1/4 size

Booklets at 2 8, 3 9, 5 -, and 10 - per dozen net respectively.

SUNBURN TINT, 8d. and 1/4 sizes only, 5/- and 10/- per dozen net.

REFILLS to MIRROR CASES in WHITE or RACHEL	... ... ...	2/8 per dozen net.
1/4 SHAVING PADS, FOR USE AFTER SHAVING (unscented, white only)	10/- ..	"

THE ALL-BRITISH "POPPŒA" PREPARATIONS.



NEW PRICES.

ROUGE is most popular. It is put up in most convenient form, and is Nature's Understudy.

IN PADS, 8d. each.
5/- per dozen net.

IN MIRROR CASES, 1/4 each, 10 - per dozen net.
REFILLS, 6d. each, at 3/9 per dozen net.

"POPPŒA" MASSOLINE SKIN FOOD, in Jars, 1/2, 2 6 & 3 6 each; 9/6, 24/- & 28/- per dozen net respectively

"POPPŒA" CIRCASSIAN CREAM , 1/2, 2 6 & 3 6 , 9/6, 24/- & 28/- , , ,

"POPPŒA" CRÈME POUDRÉ, in Bottles, 1/2 & 3/6 each; 9/6 & 28/- per dozen net respectively.

**PAPIER POUDRÉ, Ltd., 20 BAKER STREET,
PORTMAN SQUARE, LONDON, W.1.**



"Big rush on Photographics to-day"

said the manager
as he went over
the day's receipts.

"Everyone Served?"

"Yes," answered the assistant,
"such a large proportion
wanted

TRADE MARK 'TABLOID' BRAND

Photographic Chemicals

and we can handle a dozen customers for 'TABLOID' Photographics in the time it takes to weigh up this, that and the other for *one* ordinary customer."

'TABLOID' Photographic Chemicals are half-sold before you get them. No questions, no argument.

**Simply Hand Them Over the Counter and
Take the Money**



BURROUGHS WELLCOME & CO., LONDON

WARRICK BROTHERS, LIMITED

CHOCELLÆ.

PULVELLÆ.

FLEXOIDS.

FLEXETTES.

FIZZZLETS. (*Suspended*)

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Coming Events.

This section of the "C. & D." is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

Monday, July 21.

British Pharmaceutical Conference, Holborn Restaurant, London, W.C., at 8 P.M. Reception by the President and concert.

Tuesday, July 22.

British Pharmaceutical Conference, 16 Bloomsbury Square, London, W.C., at 10.30 A.M. Presidential address by Mr. William Kirkby, M.Sc. At 1 P.M., Lunch at the Holborn Restaurant. At 2.30 P.M., Harrison Memorial lecture by Mr. F. H. Carr, F.I.C. At 3.30 P.M., Practice Section. At 7.30 P.M., Dinner at the Holborn Restaurant.

Wednesday, July 23.

British Pharmaceutical Conference, 16 Bloomsbury Square, London, W.C. At 10.30 A.M., Science Session. At 1 P.M., lunch at the Holborn Restaurant. At 2.30 P.M., Science Section. At 3.30 P.M., Practice Section. At 8 P.M., Smoking Concert at the Holborn Restaurant.

Thursday, July 24.

British Pharmaceutical Conference. Excursion to Burford Bridge, near Dorking.

Bowls.—At 3 P.M. bowls will be played at the Wood Green ground of the North and North-East Pharmacists. Bus to Wood Green Town Hall or train to Wood Green.

London Chemists' Golfing Society. Wembley Course. Open meeting for Carmichael trophy.

English and Welsh News.

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."

Blockade of Germany Raised.

In accordance with Article 440 of the Peace Treaty the blockade of Germany was to be lifted after the ratification of the Treaty by Germany and three of the Allied Powers. This requirement has since been modified so far as relates to ratification by the Allies. The Treaty having been ratified by Germany, the blockade, which has lasted for practically five years, has been raised, and commerce with Germany may be resumed forthwith. In this connection the Board of Trade has issued the following notice:

In view of the raising of the blockade, the Board of Trade have issued general licences under the Trading with the Enemy legislation authorising, with certain reservations, the resumption of trade with Germany and German-Austria. The licences do not remove the existing restrictions upon the payment of debts and the return of property due or deliverable to persons in Germany and German-Austria in respect of pre-war transactions. Moreover, any permission which may be necessary in respect of any transactions under Defence of the Realm Regulation 41 D must be obtained from the Treasury. The licences do not permit the importation from Germany or German-Austria of any goods included in the Prohibition of Import Proclamations and not covered by a general licence issued under those Proclamations. Further, export licences must be obtained from the Export Licence Department, 1 Queen Anne's Gate, Westminster, S.W.1, before goods included in Lists "A" and "B" of prohibited exports are shipped to those countries, but no licences are required in respect of goods included in List "C."

Birmingham.

Cadbury Bros., Ltd., are advertising for boys who are just leaving school.

The frequency of advertisements in the local Press for "shop and house" seems to point to a revival of the former system of living on the premises.

Mr. Alfred Bird, M.P., Solihull, has, although in his seventieth year, performed during the past few days the remarkable feat of covering 103 miles in a single day on a cycle.

Two University posts of interest to pharmacists are those of physics and chemistry. The new professor for the former is Mr. S. W. J. Smith, and for the latter Mr. G. T. Morgan.

Colonel Wyley was a member of the Lord Mayor's party assembled in Victoria Square on July 12 to welcome the heroes who had come to promote the purchase of Victory Loan securities.

The death is announced of Mr. Edward Cheshire at the age of seventy-seven. Mr. Cheshire began his career at Chance's chemical works, Oldbury, and subsequently became a brewer.

The Birmingham Trades Council has decided that its members should refuse to work by the side of those who have qualified for their trade by an intensive or hot-house course. Will pharmacy adopt a similar attitude?

Councillor W. A. Cadbury, second son of the late Mr. Richard Cadbury, has intimated his willingness to accept nomination as Lord Mayor of Birmingham. Councillor Cadbury, who was born in 1867, is a director of Cadbury Bros., Ltd.

Pharmacists will learn with regret that Mr. Evans, the janitor of Birmingham University and curator of the local Pharmaceutical Association's library, has been confined to the sick-room for the past seventeen weeks. Books may be obtained as usual by application to his assistant.

Liverpool.

"Prana" sparklets, with free parts for syphons, are a feature of window-displays this season.

"One hour only on Sunday," and that hour 7 to 8 p.m., is the extending rule in city and suburbs.

Much regret is being expressed at the death of Mr. John H. Leithead, of Chester, whose sons were educated in Liverpool. (See p. 52.)

Mr. John H. Robinson, Exchange Station Pharmacy, has been paying his yearly visit this week to London houses.

Mr. J. Cleworth (Vice-President of the Manchester Pharmaceutical Association) has been spending a holiday at New Brighton.

Manicure sets form a feature in Liverpool pharmacies just now, and some cheapening of a few of the lines on the market is noted.

Many visitors from the Midlands and the South who call at the pharmacies for pick-me-ups mention, as the cause of their headaches, the strong air of Liverpool. Local people find these breezes refreshing.

Mr. Ashworth (formerly with Clay & Abraham) has acquired, on demobilisation, the pharmacy formerly carried on by the late Mr. Anthony Buck at the corner of Upper Parliament Street and Bedford Street.

It is probable that the next annual meeting of the Proprietary Articles Trade Association will be held in Liverpool. The suggestion that these gatherings should be held occasionally in the country was made at the annual meeting last week.

Harrods, Ltd., of London, have purchased a central site upon which imposing premises are to be erected for the purpose of their business of universal providers. The departments will include one for drugs and toilet articles, so that more competition may be expected by local chemists. Further changes are imminent in the centre of Liverpool. Selfridge's have taken over G. H. Lee & Co., Ltd., Basnett Street, and will extend the premises largely. Other developments are announced by the Bon Marché and various competitors.

The result of the annual scholarship examination recently held at the Liverpool School of Pharmacy (Principal, Mr. H. Humphreys Jones, Ph.C.) is as follows : Hallux, 70; Convallaria, 61; Methane, 58; Atom, 55; Alkali, 53; Acid, 52; Hexamethylene, 48; Ethyl Chloride, 47; Neutral, 47; Saline, 46; Fides, 45. (The figures indicate percentages of the possible maximum.) The winner is Miss Elsie Stobart, who is with Mr. R. G. Govier, chemist and druggist, Wallasey. Mr. John Butler, pharmacist, was the examiner.

Mr. W. H. Saunders (Ayrton, Saunders & Co., Ltd.) made a speech of considerable interest and importance to business men at the annual gathering of the Liverpool Trade Protection Society, of which he is President, at Douglas, Isle of Man. Mr. Saunders recalled that when the last meeting of the Society was held he was in Petrograd, and proceeded to dwell on the outlook for British trade and the function of trade-protection societies in fostering that trade. In his concluding remarks he said : "In July 1914, one month before the war, I made a little tour in Russia and the Scandinavian countries, and was amazed at the almost complete monopoly of the business held by Germany. I returned from that tour quite depressed and disheartened ; nowhere could I find English goods in evidence. The calculated and deeply laid plan of Germany to obtain the world conquest of commerce, irrespective of cost or honour, was well exemplified in the recent exposure of the nefarious machinery of the world-wide Schimpfeng Trade Protection Society, which, in my opinion, will be again revived. There is no doubt whatever that Germany will make superhuman efforts to recover the position she held in 1914, and recapture as much as possible the markets then enjoyed by her, besides efforts to obtain fresh avenues for business."

Sheffield.

The nominations for the Sheffield Pharmaceutical Committee have resulted in only six names being submitted for the twelve seats.

The many friends of the late Mr. G. T. W. Newsholme will be pleased to see that his daughter Kathleen has been elected Vice-President of the Students' Association. Miss Newsholme is apprenticed in her father's old business.

There is more of a holiday spirit amongst the craft than of late. Mr. Chadwick has not quite recovered from his serious illness, and is taking a rest in Jersey. Mr. C. H. Hallatt has returned to business after an enforced absence of several months.

Classes in chemistry, botany, and other subjects were at one time well established at Sheffield University, where they arose on the discontinuance of similar classes by the local Society. The Society's *materia-medica* specimens were acquired by the University at the same time. In those days certificates and a prize in money were offered by the late Mr. Newsholme, the only thing lacking being sufficient interest on the part of the students.

Miscellaneous.

BANK HOLIDAY.—A Proclamation has been issued appointing July 19 a bank holiday and a public holiday throughout the United Kingdom.

ADVERTISEMENT BY COMPETITION.—Phillips & Son, Ltd., chemists, Wallgate, Wigan, are running a candle-guessing competition to advertise certain hair specialities.

FIRE.—On July 13 the factory of the Lincoln and Midland Counties Drug Co., Park Street, Lincoln, was involved in an outbreak of fire and completely destroyed. Some hundreds of workpeople are thrown out of employment in consequence.

PROPOSED BY-LAW CONDEMNED.—A largely attended meeting of pharmacists was held in Bristol on July 10, Mr. Weston Roberts presiding. A report was submitted by Captain A. L. Taylor, Ph.C., on the recent meeting of the Pharmaceutical Society at the Memorial Hall, London (*C. & D.*, July 5, p. 53). The proposed by-law and regulations were discussed and condemned by the meeting, and a resolution pledging resistance was passed unanimously.

FRENCH GOODS FOR ENGLAND.—The success that attended the first and second exhibitions of French products organised by the Office Commerciale Française en Angleterre, at 153 Queen Victoria Street, London, E.C. 4, lends interest to the third display, which is open from July 15 to July 31. Little by little the whole field of French manufacture and industry will be covered, and this time the main features of the display will include electric appliances and fittings.

WEIGHTS AND MEASURES.—An Order in Council has been issued approving of new denominations of standards under the second schedule of the Weights and Measures Act, 1878. These are measures of capacity from 33 to 64 imperial gallons inclusive. Another Order in Council authorises alterations in fees for verification and stamping as follows :

Imperial Measures.

Measures of capacity (liquid, dry, and apothecaries') :
Each measure not exceeding a pint, when not subdivided, 1d.

Metric Measures.

Measures of capacity and cubic measure :
Each measure not exceeding 0.5 litre, or 500 cubic centimetres, when not subdivided, 1d.

IN THE COURTS.—At Willesden Police Court, on July 10, the hearing of the charge against Reginald Owen Bird (*C. & D.*, July 5, p. 47) was continued, two fresh cases of alleged fraud being brought forward, and Edward George Roach being summoned for conspiring with Bird. The case was again adjourned.—At Maidstone, on July 10, Albert Victor Larking was fined 1*l.* for stealing castor-oil and perfume value 4*s.* 9*d.*, the property of his employer, Mr. F. J. Oliver, chemist and druggist, Bank Street.—At Marlborough Street Police Court, London, on July 15, Frederick William Curtis, traveller, Loughborough Road, S.W., was charged on remand with

embezzling the sum of 34*l.* 18*s.* received by him on account of his employer, Mr. William Joseph Edwards, surgical-instrument maker, Mortimer Street, W. The accused, against whom other charges were preferred, was committed for trial, bail being allowed.—A woman who was charged at Westminster Police Court recently with shoplifting explained that she had first made a bet that she would remove some goods from a certain shop without being caught, and had then taken "a big dose of quinine and sal-volatile."

PONSONINGS.—At Leamington, on July 14, the inquest on Mrs. E. M. Scholes, adjourned from July 1 (*C. & D.*, July 5, p. 47), was concluded without a satisfactory elucidation of the circumstances of her death. It was stated that the body had been found to contain less than one-hundredth of a grain of strychnine. The Coroner, in closing the inquiry, remarked: "I have never been quite so nonplussed."—At Acton, on July 15, an inquest was held on the body of Charles Orme, a Government employé, who died through the inhalation of a dust containing an irritant poison while working at Chiswick Laboratory. Evidence showed that Orme had been inspecting several of the rooms there, and was taken mysteriously ill and died. Mr. William Dunham, senior chemist at Chiswick Laboratory, said that the premises had been properly cleaned, and all precautions taken to prevent anyone suffering from the effects of this substance. He knew that people who visited the place suffered from irritation of the nose, which made them sneeze. Apart from Orme, no one had been seriously affected. The still was thoroughly cleaned after it had been used in 1918. It had been treated once or twice and used for the purification of methyl alcohol. The Coroner said this was a case in which, in the public interest, the nature of the poison should not be made known.—At Bradford, F. Poole, grocer, committed suicide by drinking a solution of ammonia while of unsound mind.

Irish News.

Brevities.

Mr. L. McHenry has passed the entrance examination of the Royal College of Surgeons.

At the request of the employers' section of the Ulster Retail Drug Trade Association, July 14 was observed as a holiday, in addition to the official day off on July 12.

Mr. J. J. McHenry, Ph.C., proprietor of the National Pharmacy, 23 High Street, Enniskillen, has passed the medical examination in pathology and practical bacteriology at the Royal College of Surgeons, Dublin.

Miss Helen Tichborne has been granted a Civil List pension of 60*l.* per annum, in view of the late Professor Tichborne's scientific discoveries in chemistry and pharmacology, and of her needy circumstances.

The Irish Attorney-General has been asked to secure that the term "apothecaries' assistant" shall include persons qualified under the Irish Act of 1791, as well as those qualified under the 'Apothecaries' Act, 1815, seeing that the certificates are recognised equally as a qualification for an Army compounder.

At a recent meeting of the Larne Urban Council, Mr. C. L. Mackean, J.P., drew attention to the prevalence of methylated-spirit drinking. He thought representations should be made to the proper authorities to compel all chemists and druggists to keep a book in which they should note the quantity of methylated spirits obtained, the quantities sold, and the names of the purchasers. It should not be sold without a medical certificate, nor unless the seller was satisfied it was for external use. He (Mr. Mackean) was perfectly certain, at present, that it was supplied to certain customers, the seller knowing it would be used for drinking. A resolution was sent to the Inland Revenue authorities.

APPLIED CHEMISTRY.—"Now," said the professor to the class, "in what combination is gold most quickly released?" "Mariage," replied a ready student.

Scottish News.

Brevities.

Mr. James C. Robertson, chemist and druggist, has acquired the business formerly carried on by Mr. Peter B. McMurray, chemist and druggist, and the late Mr. James McMurray, at Helensburgh.

Mr. Alexander Dick, chemist and druggist, Beldhill, signed the nomination papers on behalf of John Robertson, the well-known Labour candidate in the Parliamentary contest now going on for the Bothwell Division of Lanarkshire.

Mr. T. R. Rammage, Cawdor Place, Nairn, has died after a long illness. He was a native of Edinburgh, and was trained there in pharmacy, subsequently coming to Nairn as an assistant in a drug-store. His bent of mind, however, subsequently led him to take up journalism, and latterly he also opened in business as a bookseller.

Aberdeen.

The competition for the Bursary left under the will of the late Mr. Petrie, Aboyne, will take place in Aberdeen during August. The Bursary, which is of the approximate value of 20*l.*, is open to all student-associates of the Pharmaceutical Society who have served an apprenticeship of not less than three years with a pharmacist in the City or County of Aberdeen and have not previously studied at any school of pharmacy. Full particulars may be had on application to Mr. H. M. Dugan, Secretary of the Aberdeen Pharmaceutical Association, 275 Holburn Street.

Dundee.

The Dundee Police Committee has instructed the Town Clerk to take up the matter of methylated-spirit drinking with the Revenue authorities, and to bring it under the notice of the magistrates; and he was further instructed to draw the attention of chemists and others to the dangers attached to the sale of methylated spirit. The evidence before the Committee tended to show that the spirit was not, as a rule, obtained from chemists.

Edinburgh.

A woman died in Edinburgh Royal Infirmary on July 9 as the result of the accidental drinking of carbolic acid.

Mr. Thomas Stephenson, Ph.C., has been elected a Joint Secretary of the Edinburgh Rotary Club for the ensuing year.

On the recommendation of the Committee, the Heriot-Watt College has appointed a lecturer in pharmacy at a salary of 400*l.* per annum.

Among those who have been successful in physiology at the recent medical examinations in Edinburgh is Mr. Thomas John Muir, chemist and druggist.

The death is announced of Dr. Robert Abernethy, 10 St. Colme Street, at the age of fifty-two. Dr. Abernethy was a well-known consultant.

On July 10 Sir Thomas Fraser was presented with his portrait, which was subscribed for by his colleagues and friends in recognition of his services as professor of *materia medica* at Edinburgh University.

Fife.

Mr. R. S. Ramsay, chemist and druggist, Cardenden, has been re-elected a director of Cardenden Gas Co., Ltd.

Mr. Edward Gordon, chemist and druggist, Kelty, who has been released from the Army, has opened new premises in the main street.

Mr. W. Sommerville, chemist and druggist, Kinglassie, has closed his pharmacy and has disposed of his stock, etc., to Mr. Peter Fenton, pharmacist, Cardenden.

Glasgow.

The Glasgow Apothecaries' Co. has been purchased by T. & H. Smith, Ltd.

The second round for the Virol Cup was played by members of the Glasgow Pharmacy Golf Club at Milngavie on July 1. The best net score was that of Mr. R. Jack (4), 85. Mr. W. Garrie (2) and Mr. R. Hogg tied for second place with 86.

The Committee of the Glasgow Corporation who have charge of the arrangements for the British Industries Fair, originally arranged for September (*C. & D.*, June 7, p. 48), have decided to postpone it until February 1920. Following the cessation of hostilities, the Board of Trade (with whose authority and support the Fair is held) decided that the British Industries Fairs (1920) would be held simultaneously in London, Birmingham, and Glasgow from February 23 till March 5. The close proximity of two fairs in Glasgow was discussed at some length by a number of exhibitors who had booked space for the September show. The result of their deliberations was the suggestion that the September Fair should be postponed.

Examination Results.

We have received from the Registrar of the Pharmaceutical Society of Great Britain the following list of persons who were granted certificates at the recent examination held in London :

MAJOR EXAMINATION.

Hughes, David Ronald, Chester.

MINOR EXAMINATION.

Anglim, Catherine M., Tagoat.
Barnes, Walter, Mansfield Woodhouse.
Barnett, Victoria M., Uppingham.
Bateley, S. H., Tottenham.
Bean, Mary, Snaith.
Bentham, Edith M., Abram.
Blackwall, P. B., Kettering.
Bolton, John H., Bristol.
Boulter, Edwin, Sheffield.
Brown, Thomas, Scarborough.
Burke, Hugh, Bermondsey.
Carter, A. E., Sowerby Bridge.
Clark, Ernest H., Birmingham.
Clark, John W., Birmingham.
Clark, Joseph R., Keskies.
Collis, G. R., Stoke-on-Trent.
Cooper, W. A., Finsbury Park.
Coverdale, G. A., York.
Cuthbert, H. E., Lancaster.
Davies, Cyril H., Port Talbot.
Deacon, Albert E., Windhill.
Dodd, Mary C., Wallasey.
Eastwood, Phyllis F., Liverpool.
Edwards, Harry, Fleetwood.
Evans, Edith M., Greenwich.
Everett, Horace J., Cambridge.
Faulkner, Alfred L., Liverpool.
Favard, A. A. T., Johannesburg.
Fiskwick, Harry, Chester.
Fox, Nancy, Streatham.
Fraser, Jane McB., Chelsea.
Gladwyn, Frances A. M., Saxmundham.
Goodson, Harry, Bramley.
Goulder, H. J., Warrington.
Green, George M., Bristol.
Grinths, W. R. C., Queensland.
Gris, Madeline, Bayswater.
Haesiden, W., Leatherhead.
Hall, Oswald T., Coventry.
Harris, A. E., Birmingham.
Harrison, Kathleen W., Finchley.
Heard, Harold C., Devonport.
Heath, Mary E., Southampton.
Henty, C. J. E., Hawkes Bay.
Herbert, William A., Grimsby.
Higgs, Doris M. M., Horsham.
Hill, Hubert M., Manchester.
Hirst, Harold, Bournemouth.
Hodgkinson, John H., Carlisle.
Hollings, Frank T. R., Wath-on-Dearne.
Horrocks, Tom B., Horwich.
Hawes, Harold, Birmingham.
Hudson, D. W., Eastbourne.
Hutchen, Kathleen M., Lough-ton.
Ireland, Hannah L., Bristol.
Jones, Christopher V., Bath.
Jones, Idwal, Carmarthen.
Jones, Rebeca, Milton.
Jones, R. C., Merthyr Tydfil.
Jones, Trevor H., Llanrwst.
Jordan, Cecil J., Wandsworth.
Kaye, Cyril, Manchester.
Kemp, Reginald H., Upminster.
Leadbeater, L., Rotherham.
Lee, Kenneth H., Huddersfield.
Lee, Mary W., Neston.
Lee, William Linthorpe.

Pharmaceutical Society of Ireland.

Council-meeting.

THE monthly meeting of the Council of the Pharmaceutical Society of Ireland was held on June 8 at 67 Lower Mount Street, Dublin, Mr. James Michie (President) in the chair. The following members of the Council were also present : Messrs J. E. Connor, J.P., Vice-President ; James Tate, William Doig, G. A. McLean Lee, Owen Wells, Victor E. Hanna, Dr. A. J. Barnes, and Dr. J. A. Walsh.

NORTH IRISH PHARMACISTS' ASSOCIATION.

The following letter was received from Mr. Jas. Dundee, Secretary of the North Irish Pharmacists' Association :

In reply to yours of June 12, I have been in communication with some members of my Committee. We think that the resolution submitted should have made the position quite clear, but the following points may be noted :

(a) The Council is the Executive for the Government as far as pharmaceutical education is concerned.

(b) The Council, with all respect, is not competent to deal with education in its broadest sense.

(c) Neither is the North Irish Pharmacists' Association.

(d) Dissatisfaction is generally expressed at every meeting of pharmacists with the present condition of things.

(e) The request is for a Committee made up of (1) educational experts who can take a broad view of the matter, and (2) members of the Council for the commercial and technical view, this Committee to be empowered to hear complaints, note suggestions, and take evidence; in fact, it should have the widest possible terms of reference, and report to the Council what (if any) changes should be made. The North Irish Pharmacists' Association recognises, of course, that the Council is hedged in by Acts of Parliament and official regulations, but inside the Acts of Parliament the Privy Council cannot well refuse to give effect to recommendations made by an influential Committee such as is suggested.

(f) In the event of such a Committee being formed, members of the North Irish Pharmacists' Association will be prepared to give evidence.

(g) The North Irish Pharmacists' Association consists of about 100 members, mainly members of the Pharmaceutical Society, many of whom became members of the Society at the invitation and through the influence of the Association.

(h) There is also an understanding with the Chemists' and Druggists' Society, due to which many R.D.s became Associate Druggists lately.

The North Irish Pharmacists' Association feels, therefore, that the reasonable request made will be received with sympathy by the Council, and an opportunity given for a full, free, and informed discussion of the most important matter in connection with our coming members, and the ultimate development of pharmacy in Ireland.

The PRESIDENT said the communication did not throw much fresh light on the subject. He did not think such things as were suggested came within the function of the Society. Besides it would take a lot of money to have such a scheme, and the Council has no powers to spend money on it.

Mr. WELLS said that a letter which appeared in THE CHEMIST AND DRUGGIST from Mr. Hogg would seem to show that they have climbed down from their original position.

Mr. TATE thought the best way to meet the situation would be by receiving a deputation from the North of Ireland Pharmacists' Association. In that way they might be able to elicit exactly what was in the mind of the Association.

Dr. WALSH agreed with this suggestion. He said he thought the Society and the various Committees were quite competent to deal with the education required in the case of pharmaceutical candidates, but the Society could hear the views of the deputation.

Mr. MCLEAN LEE also approved of the suggestion to receive a deputation. It was a good thing to have suggestions of this kind made, because it showed that interest is being taken in the work of the Society.

The PRESIDENT thought the views of the Association should first be sent to the Society in writing, and the deputation could be received afterwards.

Other members expressed the opinion that the deputation should be received without first asking their views in writing.

The President's motion was adopted by five votes to four.

PHARMACEUTICAL ASPIRANTS.

The Assistant Controller-General, Appointments Department, Ministry of Labour, wrote informing the Pharmaceutical Society that under the maintenance and training grants scheme they had several candidates, officers and others of the officer type, who wished to go in for pharmaceutical chemistry. These candidates were all demobilised. Certain pharmaceutical chemists were willing to take candidates, but the fees required vary considerably. He asked the Society to consider the matter, so that the same terms might be agreed upon.

The PRESIDENT explained that the idea was to have a uniform figure for fees.

DR. BARNES said the Drug Trade Employers' Association is the most suitable body to deal with that matter.

DR. WALSH: Apprenticeship fees never come before this Council at all.

It was decided to forward the communication to the Secretary of the Employers' Association, as the Council were of opinion that the Association is the proper body to deal with the matter.

CHANGES OF ADDRESS.

The following wrote notifying changes of address:

Mr. J. R. McKay, to Clones; Mr. P. J. O'Toole, to Miltown Malbay; Mr. J. F. Dunwoody, to Dublin; Mr. M. McNally, to Dublin; Mr. H. G. Smith, to Cork; Mr. W. G. Smith, to Donaghadee; and Mr. S. Hill, to York Street, Belfast.

PRELIMINARY REGISTRATION.

The following submitted certificates from other bodies and were admitted to Preliminary registration:

Mr. J. Brosnan, Main Street, Ennistymon; Mr. T. J. Doyle, Malahide Road, Clontarf; Mr. W. Esler, Belfast.

DEATHS.

The REGISTRAR reported that registered letters sent to the following were returned marked "Deceased": Messrs. James Curry, Malahide Road, Clontarf; and David F. Rice, 14 Talbot Street, Dublin.

The Registrar was directed to remove these names from the Register.

CHEMISTRY EXAMINER.

Mr. George Ebrill, B.A., was appointed examiner to conduct the chemistry division of the Pharmaceutical Licence examination.

ELECTION OF MEMBERS.

On the motion of the PRESIDENT, seconded by the Hon. TREASURER, the following were elected members:

Mr. F. P. Armstrong, Ph.C., Main Street, Manorhamilton, co. Leitrim.

Mr. J. C. Boyle, Ph.C., 82 York Street, Belfast.

Mr. W. D. Broderick, Ph.C., Duagh, co. Kerry.

Mr. P. T. Callanan, Ph.C., 31 Hemberton Road, Clapham, London, S.W. 9.

Mr. J. J. Fitzgibbon, Ph.C., Sandycove Pharmacy, Kings-town.

Dr. E. F. Flood, Ph.C., 89 Clanbrassil Street, Dundalk.

Mr. J. M. Gorman, Ph.C., The Esplanade, Bangor, co. Down.

Mr. John Marks, Ph.C., 42 Lower George's Street, Kings-town.

Mr. W. H. V. McKay, Ph.C., 180 Ravenhill Road, Belfast.

Mr. D. A. O'Connell, Ph.C., Court View, Listowel, co. Kerry.

Mrs. M. O'Driscoll, Ph.C., Medical Hall, Bank Place, Bandon.

Mr. M. J. Parkes, Ph.C., 8 Main Street, Blackrock, co. Dublin.

Mr. J. A. Patton, Ph.C., Windsor Medical Hall, Lisburn Road, Belfast.

Mr. F. E. Preston, Ph.C., 70 Rathmines Road, co. Dublin.

Mr. P. J. Quinn, Ph.C., Donnelly's Medical Hall, Irish Street, Dungannon, co. Tyrone.

Mr. P. R. W. Shinner, Ph.C., 178 Cliftonpark Avenue, Belfast.

Mr. S. T. Smith, Ph.C., The Carlow Medical Hall, Carlow.

Mr. W. G. Whitney, Ph.C., 4 Charles Street, New Ross.
Mr. T. Wrixon, Ph.C., Bank Place, Mallow, and
Mr. P. S. Flynn, Ph.C., Mayobridge, Newry.

ASSOCIATE DRUGGISTS.

The following were elected Associate Druggists:

Mr. J. A. S. Anderson, R.D., High Street, Killyloagh, co. Down.

Mr. John Byrne, R.D., Athboy, co. Meath.

Mr. J. A. Hanna, R.D., Castle Buildings, Lisburn.

Mr. S. A. Keane, R.D., 48 High Street, Kilkenny.

Mr. Charles O'Neill, chemist and druggist, 42 High Street, Kilkenny.

Mr. S. J. Smiley, R.D., The Drug Hall, Castlewellan, co. Down.

Mr. Henry Tohall, chemist and druggist, Moy, co. Tyrone, and

Mr. W. G. West, R.D., 3 Haroldville Avenue, Dolphins Barn, Dublin.

REGISTERED NAMES LIABLE TO BE ERASED.

The REGISTRAR presented a list of persons to whom registered letters of inquiry under Section 25 of the Pharmacy Act, 1875, had been sent, and from whom no replies had been received.

We hope to publish the list next week.

Examination Results.

The following are the results of the examinations recently held in Dublin:

PRELIMINARY EXAMINATION.

Margaret Jane Gildea, Donegal, passed with honours. The following also passed: Patrick Henry Gahan, Dublin; Kieran Flynn, Attanagh; Catherine Elizabeth Linton, Belfast; Irene Margaret Mary Mooney, Maynooth; Wm. Gerald Walsh, Skibbereen; (Ruby Adrienne Fagan, Dublin, = Louisa Thompson, Charlestown); Joseph Caddoo, Clones; John Aloysius Campbell, Belfast; Robert James Edwards, Belfast; Lily Wellwood, Latton, Co. Monaghan; Patrick Bowler, Dingle; (Elizabeth McGing, Westport, = Thomas A. P. Bell, Ballycastle, = James Murray, Limerick); Eileen Frances McIntyre, Dublin; (May Duane, Blarney, = John Paul Lamphier, Callan); Rebecca Tomkin, Dublin; Michael Pettit, Granard. Nineteen candidates were rejected.

REGISTERED DRUGGIST EXAMINATION.

The following passed: Thomas Joseph Doyle, Dublin; Mary Agnes Hely, Cappoquin; Thomas John McGuinness, Carrick-on-Suir; three candidates were rejected.

PHARMACEUTICAL LICENCE EXAMINATION.

(Eugene Egan, Cork, = Denis Joseph Kavanagh, Buttevant); passed with honours. The following also passed: Edward MacManus, Enniskillen; Cecil Francis Boyers, Sligo; Joseph Henry White, Castleblayney; Donal Christopher Breen, Killarney; James Joseph Macartan, Kilkeel; James Patrick Daly, Cork; (Alfred Lalor Casey, Dublin, = Harry Weiner, Dublin); John McGregor, Armagh; Francis McAnally, Carrickmacross; Joseph Patrick Bourke, Nenagh; (John Joseph Cooney, Queenstown, = Peter Arthur O'Connor, Limerick); Timothy Costelloe, Castleisland; George Bell Busby, Belfast; Joseph Murray Burke, Dublin. Fifteen candidates were rejected.

PHARMACEUTICAL ASSISTANT EXAMINATION.

The following passed: Jessie Robina Wallace, Dalkey; Wm. Herbert Harman, Carrick-on-Shannon; Wm. Stack, Listowel. One candidate was rejected.

SWEDEN AND SURGICAL INSTRUMENTS.—During the war some Swedish firms engaged in the manufacture of bandages, surgical instruments, and similar goods. A brisk turnover was experienced in Finland and Russia, and, for some specialties, in Switzerland, Holland, Norway, and Denmark, an output which did not cease with the Armistice, because Germany was not able to export. Even the U.S.A., which used to buy some of these articles from Germany, is now understood to be ordering surgical instruments from Sweden. The question of Germany's reappearance as sellers is a question which acutely concerns the future of this Swedish industry.—"The India-Rubber Journal."

William Kirkby, M.Sc., F.C.S., Ph.C.

President of the British Pharmaceutical Conference.

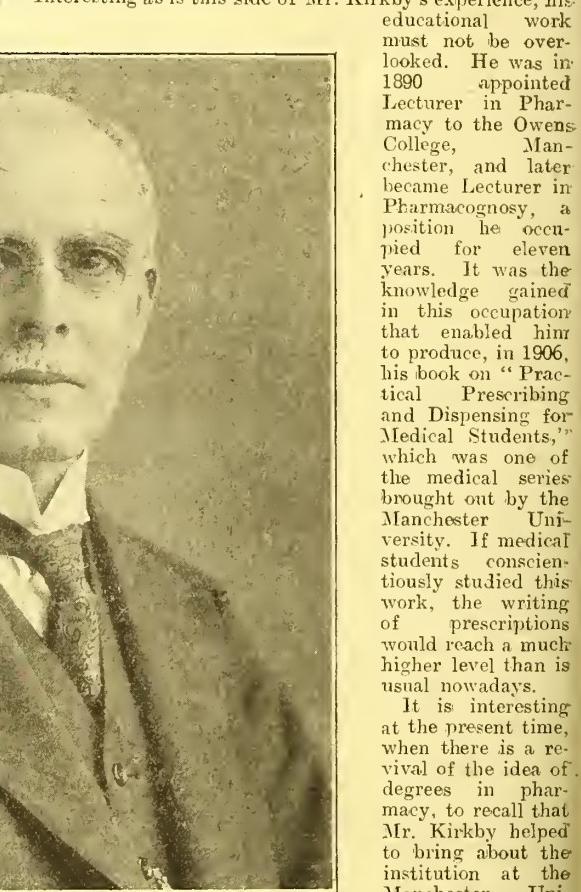
ALTHOUGH elected at a time when the Great War was being raged with its maximum of intensity, Mr. William Kirkby, M.Sc., F.C.S., Ph.C., of Manchester, is in the happy position of being the Victory President of the British Pharmaceutical Conference. That visitors to the meeting in London next week may know what manner of man he is, we give here a few particulars of his career.

Mr. Kirkby was born in Manchester, but at an early age removed to Sheffield, where his father, William Kirkby, carried on business as a chemist and druggist. The subject of these notes was apprenticed with his father, and afterwards attended the School of Pharmacy of the Pharmaceutical Society of Great Britain at Bloomsbury Square, London. This was in the session 1880-1, when he took certificates in chemistry, pharmacy, botany and *materia medica*, and practical chemistry. He passed the Minor examination in 1881, and a year afterwards became a pharmaceutical chemist. In the Council prizes competition, in 1882, he obtained the Pharmaceutical Society's silver medal. Mr. Kirkby was with Wright & Barnaby, Oxford Street, Manchester, for a time, but in 1885 joined the staff of Jewsbury & Brown, manufacturers of mineral waters, Ardwick Green, Manchester, of which firm he is chief chemist. In this position he has specialised to a high degree. As an instance of this may be mentioned his book, published in 1902, on "The Evolution of Artificial Mineral Waters." This is the most complete account of the origin of aerated beverages that has been published, and it is safe to say that before its appearance no connected description

of the early processes of making artificial mineral waters had been printed. The work entailed a lot of original research, which could never have been carried out except by an enthusiast. The chapter on the origin and development of the syphon is a complete monograph, while a longer chapter describes the modern processes of the manufacture of aerated beverages as carried out in Jewsbury & Brown's model factory, illustrations of which are given. It was Mr. Kirkby's experience in the analytical department of Jewsbury & Brown's that helped, in 1900, to track the cause of the alarming arsenical beer-poisoning which occurred in that year. He, jointly with Dr. T. N. Kelynack, published an account of the epidemic, the authors showing that arsenical sulphuric acid used in the manufacture of the glucose employed in beer was the cause of the arsenical

contamination. Mr. Kirkby gave evidence before the Royal Commission on Arsenical Poisoning, the evidence before which was published in 1901. Mr. Kirkby's evidence dealt with the results of examining seventy-two samples of beer, stout, etc., by Gutzeit's test, which he showed was preferable for the purpose to Marsh's test. He also showed that arsenic had been known for a long time to be an impurity in sulphuric acid, quoting Phillips' "Translation of the London Pharmacopœia, 1836," and Pereira's "Materia Medica" (1849) in support of this statement. It had been Mr. Kirkby's practice for twenty-five years to examine sulphuric acid for arsenic, and he produced a table of the results obtained in Jewsbury & Brown's laboratory.

Interesting as is this side of Mr. Kirkby's experience, his educational work must not be overlooked. He was in 1890 appointed Lecturer in Pharmacy to the Owens College, Manchester, and later became Lecturer in Pharmacognosy, a position he occupied for eleven years. It was the knowledge gained in this occupation that enabled him to produce, in 1906, his book on "Practical Prescribing and Dispensing for Medical Students," which was one of the medical series brought out by the Manchester University. If medical students conscientiously studied this work, the writing of prescriptions would reach a much higher level than is usual nowadays.



MR. WILLIAM KIRKBY.

ceutical subjects are recognised as a substantial part of the qualifying course of studies. An outline of the scheme, prepared with the assistance of Mr. James Grier, M.Sc., was given in THE CHEMIST AND DRUGGIST, February 21, 1903. Mr. Grier succeeded Mr. Kirkby as Lecturer in Pharmaceutics at Manchester. The University recognised Mr. Kirkby's services to education by conferring upon him the honorary degree of M.Sc. His connection with the University brought him in contact with the late Professor D. J. Leech, M.D., who was Chairman of the Pharmacopeia Committee of the General Medical Council, and, with Dr. Leech, several pharmaceutical researches were undertaken. His services as Referee are acknowledged in the preface to the Indian and Colonial Addendum to the British Pharmacopœia, 1898. He served also as a member of the Committee of Reference in

Pharmacy which assisted in the production of the British Pharmacopœia, 1914.

Mr. Kirkby has been connected with the Manchester Pharmaceutical Association for many years, and has filled the office of President. His connection with the British Pharmaceutical Conference dates from 1886, when he read a paper on "A False Pareira Brava," a West African substitute for *Chondrodendron Tomentosum*. In 1887 he read before the Conference a paper on "A Spurious Cubeb." These two papers established Mr. Kirkby's reputation as a botanist and microscopist. To the 1888 Conference he presented a paper on "Insect Powder," which was also a microscopic study of the Dalmatian product, and in 1890 his contribution was a "Note on a sample of adulterated saffron." Among his other papers on pharmacological subjects may be mentioned the following: "Note on Rio Ipecacuanha," "Sandalwood" (two papers), "Fluid Extract of Senecio Jacobaea," "The Sources of Spermaceti," and "A Modification of Marsh's Apparatus, to Prevent Explosion," these being contributed to the "Pharmaceutical Journal." Mr. Kirkby was Hon. Secretary of the Local Committee when the Conference met in Manchester in 1907. He is interested in general literature, and our own columns have frequently borne witness to his expert knowledge on archaeological subjects. It will thus be seen that Mr. Kirkby possesses all the attributes of a successful President of the British Pharmaceutical Conference. Considering his training and predilection, we expect that his presidential address will deal with the higher side of pharmacy, which he has always tried to promote.

Organising the Drug-trade.

N.A.C.A. Meetings.

A MEETING of the chemists' assistants of Bath was held on July 8, when it was decided to join the National Association of Chemists' Assistants. A local branch is to be set up, and Mr. C. W. Walwin was appointed Hon. Secretary.

A recent meeting of the Nottingham branch provisionally approved the new rules drawn up by the Executive Committee. Mr. A. A. Ringer presided. The rules follow upon the lines of the constitution adopted by the National Executive, and a resolution was passed supporting the National Executive. The Nottingham branch is now said to comprise practically the whole of the qualified chemists of the city, who represent more than half of its total membership.

A meeting of the Bristol branch was held on July 11, when local rules and by-laws were confirmed. An interesting discussion ensued as to the position of lady assistants engaged by pharmacists during the war. It was resolved that only ladies with three years' experience, recommended by their employer or manager, and who are making pharmacy their life calling, should be admitted to membership of the local Association. After September 1 only those who have served, or are serving, a proper apprenticeship, or are registered students of the Society, will be admitted. Mr. E. J. Sharp was unanimously elected to represent the branch on the National Executive. Mr. T. Rees was appointed Treasurer. A small committee was formed to arrange for a picnic to be held on July 23.

COCOA PRODUCTION OF THE BRITISH EMPIRE.—No less than 36 per cent. of the total imports of cocoa into this country came from British possessions in 1917, whereas prior to the war only about half the supplies were obtained from these sources. The importance of the matter will be realised when it is stated that in 1916 the total imports were valued at no less than six and three-quarter million pounds sterling. The question of the production of cocoa in the different countries of the Empire, the world's consumption, and the cocoa trade of the United Kingdom are fully discussed in an article in the current number of the "Bulletin of the Imperial Institute."

New Companies and Company News.

P.C. means Private Company and R.O. Registered Office.

ENFIELD MEDICAL HALL, LTD. (P.C.).—Capital, 1,000*l.* Objects : To carry on business as chemists, druggists, etc. R.O. : 113 Crumlin Road, Belfast.

A. & N. CATTO, LTD.—(P.C.).—Capital, 1,000*l.* Objects : To carry on the business of chemists, druggists, drysalters, oil and colour men, and manufacturers of and dealers in pharmaceutical, medicinal, chemical, and other preparations, etc. R.O. : 49 Cranbrook Road, Ilford.

FORD, COOK & CO., LTD. (P.C.).—Capital, 10,000*l.* Objects : To carry on business as importers, exporters, and manufacturers of and dealers in surgical dressings, instruments, chemists' sundries, fancy goods, drugs and chemicals, etc. R.O. : 6 Well Street, London, E.C. 1.

LEVER BROS., LTD.—At Port Sunlight on July 11 an extraordinary meeting of shareholders in Lever Bros., Ltd., confirmed the resolutions passed a fortnight ago, increasing the capital from 60,000,000*l.* to 100,000,000*l.*, to develop and purchase new business as required.

BORAX CONSOLIDATED, LTD.—At a meeting to be held on July 22 the company will submit proposals to the shareholders for increasing the company's capital to 2,900,000*l.* by the creation of 600,000 new deferred ordinary shares of 1*l.* each, to rank equally with the original deferred ordinary shares.

MOND NICKEL CO., LTD.—The directors recommend dividends for the year ended April 30, 1919, of 7 per cent. on the cumulative and non-cumulative preference shares, less tax at 6*s.* in the £, and 3*s. 6d.* per share on the ordinary shares, free of tax, less interim dividend already paid.

MELLIN'S FOOD, LTD.—The accounts for the year ended March 31, 1919, show a net profit of 19,524*l.* and an available sum, including 16,044*l.* brought forward, of 35,568*l.* A dividend of 5 per cent. less tax, has been declared, and 5,000*l.* has been written off goodwill account, reducing that item to 228,252*l.*, and leaving 17,830*l.* to be carried forward.

LIEBIG'S EXTRACT OF MEAT CO., LTD.—The accounts for the year to March 31 show a balance of 547,955*l.* against 565,771*l.* A final dividend of 10 per cent. is declared, making 20 per cent. for the year (free of tax), and a bonus of 5*s.* per share (free of tax). A sum of 60,000*l.* is placed to reserve, against 90,000*l.*; also 2,000*l.* to employés' provident fund. The sum of 252,076*l.* is carried forward, against 243,608*l.* a year ago, when the distribution was the same.

APOLLINARIS & JOHANNIS, LTD.—The directors state that they are not yet in a position to present any statement of accounts. The Hon. Cyril Ponsonby has, owing to personal reasons, resigned his seat on the Board. The auditors' report states that, owing to the war and the dislocation of business and means of communication caused thereby, the company is not in a position to draw up a balance sheet which would exhibit a true and correct view of the state of its affairs at March 31, 1919.

W. J. BUSH & CO., LTD.—The report for 1918 states that there is gross profit of 271,278*l.* After providing for debenture interest, expenses, and directors' remuneration, and making allowances for depreciation, there is a net profit of 65,903*l.*, which with the amount brought forward makes a total of 96,503*l.* After deducting dividends on the preference shares, there remains 90,258*l.* The directors recommend that this be dealt with as follows : Payment of final dividend of 15 per cent. on the Ordinary shares, making 20 per cent. for the year, 25,000*l.*, to general reserve 20,000*l.*, by writing down goodwill 10,000*l.*, carrying forward (subject to excess-profits duty for 1918) 35,257*l.* In March last the company received a letter from the Foreign Office stating that the company's premises in Moscow had been sealed up by the Soviet Government.

Legal Reports.

Salving Cinchona Bark.—In the City of London Court, on July 15, before His Honour Judge Atherley-Jones, K.C., an application was made in an action which was brought by Arthur J. Humphrey & Henry Grey, Junior, Ltd., 55 Great Tower Street, E.C., the owners of the steam tug *Amy*, and others, the master and crew claiming 300*l.* for compensation for salvage services rendered to the owners of the cargo of cinchona bark in the barge *Jay*, lying at Ohlendorff's Wharf, Silvertown. Mr. Gaspar, for defendant, said he intended applying that the action should be dismissed as the bark belonged to the French Government, but he must ask for an adjournment. Judge Atherley-Jones observed that interesting questions of international law would evidently arise. Mr. Gaspar said he really appeared for the French Government, as the cinchona bark in question belonged to them. He was asking that the proceedings should be set aside, but as the previous day was the day of the French National Fête he could not get his affidavit sworn. Mr. Ives, for plaintiffs, said he did not admit that the property belonged to the French Government, but he did not object to the case standing over. Judge Atherley-Jones, K.C., said the case could stand over until next week.

Cashing Postal-orders.—In the City of London Court, on July 15, a curious oversight on the part of the Postmaster-General came to light in an action brought by him against William Donne, a tradesman, of Beckenham Road, Penge, for 1*l.* in respect of a postal-order which was stolen from the Manor Park Post Office on December 5, 1917. It seemed that in December 1917 a robbery took place at the Manor Park Post Office and that the defendant's wife innocently accepted one of the stolen postal-orders in payment of goods purchased over the counter. She subsequently obtained payment of the postal-order from the Postmaster-General, but he now said she was liable for the value of the postal-order, as she had no business to have cashed it, it being marked "Not negotiable." Defendant now told the Court that he did not dispute that while in France his wife took the postal-order in the ordinary way of business. Realising that she was in the wrong, he sent 1*l.* to the Postmaster-General on May 16, and he produced the receipt for the Court's perusal. He had been told that he need not worry himself further, but he now found he was sued for the sovereign over again. Mr. Registrar Wild held there had clearly been a mistake on the part of the Postmaster-General, and that there must be judgment for the defendant.

Soap-powder Dispute.—In the King's Bench Division, on July 15, before Mr. Justice Roche, Mr. William Key, trading as William Key & Co., Eastcheap, claimed against Mr. Alfred E. Mason, Eastcheap, to recover 1,564*l.*, due under an arbitration award. Mr. Goddard said that the arbitration arose out of the sale of a large quantity of soap-powder by the defendant to the plaintiff. A good many tons were accepted and resold by the plaintiff. After certain further deliveries had been made it was discovered that the soap-powder was not up to description, and plaintiff refused to accept more of the soap-powder. Defendant claimed arbitration, and the arbitrator found that plaintiff was entitled to reject, that he should return to the defendant the quantity he had not sold at the date of the award, in April 1919, and that the defendant should pay plaintiff the invoice price of the quantity returned. Plaintiff had returned 64 tons 5 cwt., the invoice price of which was 20*s.* per ton, and 13 tons 16 cwt. at 20*s.* 5*s.* per ton. The goods were delivered to plaintiff in the first instance at Fishmongers' Hall Wharf, and pursuant to the award plaintiff re-delivered them to defendant by handing him a dock warrant for them. The defence put forward was that the delivery of the dock warrant did not constitute re-delivery of the goods, that it did not appear from the warrant that the goods proposed to be redelivered were the same goods, nor that they were in good condition.

Defendant, giving evidence, said he wanted the goods delivered to Brewers' Quay. The cost of removal would amount to 10*s.* per ton. He was being asked to pay on an estimated quantity, as the goods had not been reweighed and checked. Mr. Dobbs, for the defendant, submitted that there had been no delivery of the goods by the plaintiff. The mere handing over to defendant of a dock warrant, by means of which he could get the goods, could not be described as actual delivery. The arbitrator stipulated that the goods should be returned to the seller. Mr. Justice Roche gave judgment for the plaintiff for the sum claimed, holding that the sending of the dock warrant was a sufficient return of the goods to the defendant within the meaning of the award.

Camphorated Oil.—Before Mr. Wilberforce, at the Old Street Police Court, London, on July 14, Mr. C. H. Fentiman, chemist and druggist, 145 Cambridge Road, London, E., was summoned for selling as camphorated oil an article which, on analysis, was found to consist of 30 per cent. camphor and 70 per cent. mineral oil. It was stated in the information that on the counter in defendant's shop there was exhibited a notice in lettering at least half an inch long to the effect :

NOTICE.

All drugs, chemicals, foods, etc., sold at this establishment are of a good quality, and are supplied to the public exactly as they are received from the manufacturers or their agents. In order to comply with the Food and Drugs Acts I do not guarantee the same to be of any particular standard of purity or strength.

C. H. FENTIMAN.

It was also stated that the bottle in which the sample was sold to the purchaser bore an old label bearing the words "Camphorated oil." Mr. Margetts, solicitor, who prosecuted for the Shoreditch Borough Council, said he proposed to withdraw the summons, defendant agreeing, on the advice of his solicitor, to pay three guineas costs. He explained that, owing to war exigencies, the British Pharmacopoeia formula for camphorated oil had been abandoned in consequence of the shortage of olive oil, the temporary formula permitting the use of mineral oil as a substitute. Early in the year an Order in Council was issued reverting to the original formula, and this came into effect after April 30. Defendant's business was of some repute, and it would appear that he had in hand some of the oil made in accordance with the war emergency formula, some of which he indiscreetly sold when the inspector called. Strictly speaking, he ought not to have done so without giving notice to the purchaser of what the oil consisted. Having regard to the peculiarity of the circumstances, he had arranged with Mr. Kirby, who represented the defendant, to follow the course suggested if the Magistrate agreed. Mr. C. H. Kirby (representing the Chemists' Defence Association), for the defendant, pointed out that the certificate of analysis regarding the sample purchased showed that the Public Analyst had been slightly in error in stating that the oil sold contained 30 per cent. camphor. The percentage of the chemical which the sample contained was strictly in accordance with the B.P. formula—viz. 20 per cent. with 80 per cent. oil. What the defendant had done was to sell that which up till April 30 was allowed to be sold legally as camphorated oil. In other words, he had been six weeks too late. He agreed to the summons being withdrawn on payment of three guineas costs. The Stipendiary (Mr. Wilberforce) agreed to the summons being withdrawn, and ordered defendant to pay the costs mentioned.

Prescribing for the Million.—A correspondent of the "Daily Mail" of July 11 states that "in six months 1,500,000 prescriptions for narcotics have been given by thirty New York doctors." This gives an average of about 275 a day for each doctor, or 34 to the hour if the day is one of eight hours. One hustler, however, prescribed, according to the same authority, for 231 patients in two hours. "In December last," he continues, "thirty-three chemists in the same city sold 1,690 ounces of heroin," and other narcotics to match. The surprising thing is, of course, that it was not 1,690 tons.

Society of Chemical Industry.

Thirty-seventh Annual Meeting held in London, July 15—18.

THE annual meeting of the Society of Chemical Industry, which is being held this week in London, is the most largely attended gathering of the kind which has been

held for many years. The advent of Victory has enabled the members, who have been straining every nerve to overcome the enemies of civilisation, to devote some time to organisations connected with the chemical industry.

The opening meeting was held on July 15 at the Mansion House, London, E.C., the spacious ballroom having been arranged for the purpose. A very large gathering assembled, including several representatives of pharmacy, among them Mr. F. W. Branson, Mr. Edward C. Sage, Mr. E. T.

Brewis, Mr. F. H. Carr, and Mr. S. W. Woolley (Editor of THE CHEMIST AND DRUGGIST). Shortly after eleven the Lord Mayor (Sir H. Marshall) came, with the President (Professor Henry Louis), Mr. D. Lloyd Howard (Treasurer), Dr. R. Messel (Foreign Secretary), Mr. R. L. Mond, Mr. John Gray (President-Elect), Mr. W. F. Reid, Mr. E. Grant Hooper, and other members of the Council.

THE LORD MAYOR welcomed the Society and mentioned that it was the first public body to meet in the Mansion House since the signing of the Peace Treaty. This, he said, is very appropriate, because of the debt which the country owes to chemistry in the prosecution of the war. The Society has also special right to a civic welcome, because the City is the great centre of commerce, and chemistry is the hand-maid, or rather mistress, of commerce. Early in the war the services of chemistry were enlisted by Lord Moulton to counter the devices of our enemies. British chemists have risen magnificently to the occasion, not forgetting also the chemists of our Allies, distinguished representatives of whom are present. He mentioned also that Professor Louis, the President, is an old City of London School boy.

THE PRESIDENT replied and said that the Society appreciated being received by the first Magistrate of the first city of the Empire, reminding the Lord Mayor that the Society's home is now in the City. Chemistry must be a factor in reconstruction and will help to overcome some of the grave difficulties with which the nation is faced.

The Lord Mayor then left the meeting.

THE PRESIDENT called upon the Secretary (Dr. J. P. Longstaff) to read the minutes of the last annual meeting, which was held at Bristol, and these having been approved the President announced that it was proposed to send the following telegram of congratulation to the King on the conclusion of peace:

The members of the Society of Chemical Industry gathered at the Mansion House, on the occasion of their first annual meeting in London since the commencement of the war, send to your most gracious Majesty their sincere congratulations on the Peace that has been secured by the great victory

of your Forces, in conjunction with those of your Allies, and their heartfelt wish that it may be followed by many years of prosperity and happiness.

This was agreed to with acclamation. Scrutineers were appointed for the ballot for Council, after which the adoption of the

REPORT OF THE COUNCIL

was proposed by the President, seconded by Mr. R. L. Mond, and carried unanimously. The report, which was not read, but circulated in printed form, stated that there are now 5,236 members, compared with 4,826 last year. The death of sixty-five members was recorded, including Sir Wm. Crookes, Sir John T. Brunner, Sir Boerton Redwood, Mr. Thomas A. Cook, and Mr. W. Ralph Dodd. The growth of the "Journal" was alluded to, and it was mentioned that it is to be printed by W. Speaight & Sons, Ltd., in September. A Committee has been appointed to revise the by-laws, and suggestions are invited for the consideration of the Committee. Provision is to be made for the appointment of a Chairman of the Council and for the recognition of the Chemical Engineering Group that has been formed, with a membership of five hundred. The appointment of members of Council on various official bodies was also referred to, and recognition by the Federal Council for Pure and Applied Chemistry of the Society's "Journal" for official communications. The Committee which was appointed to consider the standardisation of chemical laboratory glassware will shortly issue a report. The Council has also transmitted to the Board of Trade suggestions for the improvement of the classification of chemical substances in the monthly and annual statements of trade.

THE FINANCIAL REPORT

was next considered. The income during 1918 from fees and subscriptions was 7,466*l.* 13*s.* 3*d.*; from sales and advertisements in the "Journal" 7,882*l.* 16*s.* 2*d.*; interest was 610*l.* 16*s.* 1*d.*; and 8*l.* 8*s.* was contributed as an essay prize. The expenditure on the "Journal" was 14,141*l.* 19*s.* 9*d.*; on the "Annual Reports on Applied Chemistry," 555*l.* 6*s.* 10*d.*; sectional expenses, 858*l.* 8*s.* 9*d.*; pensions, 615*l.*; annual meeting, 156*l.* 4*s.* 1*d.*; Sugar Committee Grant, 50*l.*; prize essay, 8*l.* 8*s.*; and working expenses, 2,728*l.* 6*s.* 10*d.*. The excess of expenditure over income was 3,145*l.* 0*s.* 9*d.*

Mr. D. LLOYD HOWARD (Treasurer), in moving the adoption of the report, said that the Society had passed through a critical period. The expenses had increased enormously, and the means taken to bring more revenue had not yet had time to have effect. The cost of the "Journal" had increased, owing to the improvements that had been made, and there had been an enormous rise in the cost of printing. Paper had also risen in price, and the Council had had great difficulty in obtaining the quantity required. He explained also that a deduction had been made from the accumulated funds in the 1917 accounts because of the settlement of a complicated account for 48*l.* with the former printers.

THE PRESIDENT invited discussion, and this not being forthcoming the motion for the adoption of the report was seconded and carried unanimously.

THE PRESIDENT'S ADDRESS.

The PRESIDENT then delivered his address, which occupied three-quarters of an hour. The following abstract embodies the principal points of the address:

The complete victory of the Allies is an occasion for a review of the events of the past five years as regards the work done by the chemical industries of this country. It is not too much to say that every single chemist in Great Britain has been engaged directly or indirectly on war work in some form or other, and no body of men has the right to claim a larger share in the triumphant issue than the chemists of Great Britain, although the



Photo. Elliott and Fry.
PROFESSOR HENRY LOUIS.

general public is even to-day far from recognising how deeply it is indebted to them for what they have done quietly and unobtrusively in their country's cause—a cause to which many have sacrificed their health and not a few, unfortunately, their lives. The President then gave instances of the activity of British chemists during the war, the information having been collected from various members of the Society. The consumption of sulphuric acid, which before the war was about one million tons per annum (25,000 tons being oleum), was at the close of the war one and three-quarter millions (310,000 tons of oleum). This figure is very large when it is considered that most of it was employed in the manufacture of explosives, and not in making superphosphates and ammonium sulphate as in peace time. The costing control of the factories forms an interesting chapter of our war activities, and had contributed to the rise in the efficiency of production. The quantity of picric acid and trinitrotoluol made amounted to fifty tons a week, and cordite (containing 30 per cent. of nitroglycerin and 60 per cent. of nitrocellulose, gelatinised with acetone) was made at the rate of just under a hundred tons a week. In the manufacture of T.N.T. entirely new methods had to be devised and worked out, also the requisite plant had to be designed and constructed. An enormous quantity of toluene was required, and new methods of production devised which, however, it was not necessary to put into practice. Sodium-sulphite solution was discovered to be efficient for purifying T.N.T. in place of alcohol and other inflammable solvents. Synthetic phenol was made from benzene through benzene sulphuric acid. The use of amatol (a mixture of T.N.T. and ammonium nitrate) conserved the use of T.N.T., but necessitated the production of huge quantities of ammonium nitrate. Three processes were employed—(1) the interaction of sodium nitrate and calcium chloride, giving calcium nitrate, which in turn was made to interact with ammonium sulphate, (2) the ammonia-soda process, and (3) the interaction of sodium nitrate and ammonium sulphate. By these means about 3,000 tons of ammonium nitrate were produced weekly. In the purification of tetryl acetone was replaced by other purifying agents. The production of propellants rose to 2,000 tons per week, and required about 400 tons of refined glycerin, 900 tons of purified cotton cellulose, 150 tons of acetone, and 1,000 tons of alcohol, 40 per cent. of which was converted into ether in plants erected during the war. The shortage of acetone necessitated the use of ether-alcohol as solvent to the extent of about three-fourths of the output. This change involved the use of a different nitro-cotton, and practically a new method of manufacture, in the course of which a very large proportion of the solvents used, acetone, ether, and alcohol, were recovered. Referring to the treacherous use of poison gases by the Germans, it was stated that our chemists soon beat the Hun at his own dirty game, and he has learnt to rue the day when he sought to gain a dishonourable advantage by these cowardly methods. In regard to the acetone factories which have been established since the outbreak of war, he hoped some of these would be continued in operation. The dopes used in rendering airtight the fabric of aeroplane wings necessitated the manufacture of large quantities of nitro-cellulose, cellulose acetate, benzyl alcohol, and triphenyl phosphate. Special glues had to be devised, and as a protective varnish for wood one was adopted in which China wood oil replaced linseed oil. Another triumph was achieved in producing, after many difficulties, rubber tubing that could be trusted to convey oil and petrol without splitting, in spite of the severe strains and vibrations to which it is exposed. For the lubrication of the aeroplane engines vast quantities of high-grade castor oil were required, this oil having the property of retaining its viscosity at high temperatures; chemical research enabled it to be so modified that without losing this particular quality it could be relied upon not to freeze in the tank of the aeroplane. Much research work was done on the manufacture of varnishes from fatty acids of linseed oil, as the glycerin was reserved for explosives. Cuprous oxide, used for making anti-fouling paint for ships, was all imported before the war, but is now being made on a large scale in this country. Referring to medicinal agents,

he said that there were no makers in this country of antipyretic drugs, such as phenacetin, aspirin, salicylates, etc., of hypnotics such as veronal, sulphonal, chloral or adalin, of local anaesthetics such as novocain, encaine or orthoform, of special drugs like salvarsan, neo-salvarsan and acriflavine. Furthermore, there were also many important substances of which only small amounts had been manufactured here previously, which were required in considerable quantities, and the production of which had therefore to be undertaken on a very different scale of magnitude, such as acetic anhydride, atropine, formaldehyde, glycerophosphates, hexamine, paraform, etc. It was necessary to work out methods of manufacture of these drugs and of a host of others and to produce them on the large scale that our extended battle front demanded, and here it need only be said that British manufacturing chemists once again proved themselves equal to their difficult task. Mention was made of potassium permanganate and potassium prussiate, which were not made here before the war, but are now made in quantity. Photographic developers, dyes, and baryta paper were also noted as new manufactures in this country since the war began, and the progress in the glass industry mentioned. Before the war we made practically no glass tubing; now we make 15,000 lb. a week. The President concluded that our scientists and our methods of scientific education have proved their quality. The final reflection was: "We beat Germany in war because of our superior productivity; we produced more of the essentials needed in warfare than did our enemies—we produced more ships, more guns, more explosives, more of everything that was required for the successful prosecution of the war, and had we not done so we should not to-day be the victors. What is true of the fierce clash of warfare is equally true of the less spectacular but no less severe competition of peace; if we are to hold what we have gained, if we are to maintain our leading place among the nations of the world, it can only be by maintaining our productive capacity and increasing our outputs."

At the conclusion of the address a vote of thanks was accorded to the President.

NEW OFFICERS.

The election was then announced of the following: President, Mr. John Gray (Bromborough); Vice-Presidents, Professor J. W. Cobb (Leeds), Mr. E. V. Evans, Professor Henry Louis, and Dr. A. Réé; Treasurer, Mr. D. Lloyd Howard; Foreign Secretary, Dr. R. Messel.

Votes of thanks were given to the retiring officers, and the members then adjourned to the Connaught Rooms, Kingsway, for lunch.

In the afternoon a Conference of the Inter-Allied Chemical Federation was held at the Mansion House, under the chairmanship of Professor Henry Louis. Sir William J. Pope explained the objects of the Federation and the methods of carrying out the work, whilst Professor C. Mouren delivered an eloquent address on the life and work of Sir William Ramsay.

EVENING SOIREE.

At the Soirée held at the Imperial College of Science and Technology, South Kensington, in the evening, music, fuel, pyrites, and social relaxation were the dominant features. A large and representative company of distinguished chemists, their wives, and lady friends were received in the Imperial College Union by Dr. C. A. Keane (Chairman of the London Section) and Mrs. Keane. Thereafter a high-class concert, with such brilliant musical celebrities as Miss Megan Foster, Miss Margaret Balfour, Mr. Hubert Eis dell, Mr. Ivor Foster, Mr. Warwick Evans, and Mr. Samuel Kiddle, dispensing harmony, varied the elucidation of engineering problems as exhibited in the fuel laboratory and the Bessemer laboratory over the way. During the evening one had glimpses of well-known personages representing all sections of chemical industry. M. Paul Kestner, President of the Société de Chimie Industrielle de France, was there, together with some of his compatriots. Among the pharmaceutical notabilities were Messrs. F. H. Carr, C. T. Bennett, and E. T. Brewis. In the fuel laboratory much new technical apparatus (of great interest to many

visitors) was on view, and the instrumental quartet in the Bessemer laboratory had a hard struggle to make headway against the working models showing the water separation of pyrites, flotation separation, concentration of molybdenite, and the magnetic separation of monazite from ilmenite and zircon.

WEDNESDAY'S PROCEEDINGS.

A Conference on the production and consumption of sugar within the British Empire was held at the Clothworkers' Hall, Mincing Lane, during the morning and afternoon of July 16. The Earl of Denbigh was in the chair, and the report of the Empire Sugar Supply (Technical) Committee was presented by Mr. A. R. Ling and Mr. J. W. Macdonald. The Committee gave data that had been obtained from the United Kingdom and the Dominions, Colonies, Dependencies, and Protectorates of the Empire, and from this information concluded that the possibilities of extending the production of sugar within the Empire are enormous. There is no reason why the Empire should not become at least self-supporting in the case of sugar supply. The speakers included Major Courthorpe, Sir Richard Garton, Sir Daniel Hall, Sir George Sutherland, Mr. W. Martineau, Dr. E. J. Russell, and Mr. Louis Souchon.

At the same time a Conference on power plant in chemical works was held at the Salters' Hall, St. Swithin's Lane, with Professor Henry Louis and Dr. C. C. Carpenter as chairmen in the morning and afternoon sessions.

ANNUAL DINNER.

"Come here," said one of the guests, parodying Addison, "and see how a chemist can feed." The annual dinner of the Society, held at the Savoy Hotel, London, W.C., was, in fact, as good as a chemist—or anyone else—could desire, and the company was also of the best. Professor Henry Louis (President) was in the chair, and among the many distinguished men present were Sir Alfred Mond, Bart., M.P. (First Commissioner of Works), Sir William Pope, Professor C. Moureu (President of the Inter-Allied Chemical Council), Sir James Dobbie (President of the Chemical Society), Dr. Charles Keane, Mr. W. B. M. Bird (Master of the Salters' Company), Sir William Tilden, Mr. John Gray (President-elect of the Society of Chemical Industry), Professor H. E. Armstrong, Professor W. H. Perkin, Mr. D. Lloyd Howard, Sir Richard Gregory, Dr. S. Rideal (President of the Society of Public Analysts), and Mr. R. G. Perry (Chairman of the Association of British Chemical Manufacturers). The company numbered upwards of 200. The dinner was followed by the loyal toast, and this by those of the Royal Family, the Presidents of the French and American Republics, and other representative Allies. After a brief interval, filled with animated conversation, Sir Alfred Mond proposed the toast of "The Society of Chemical Industry." Professor Louis, in reply, reminded his audience of the desire of Huxley that at some future date the average knowledge of science should be as good as that of a boy in an elementary school. (Laughter.) The professor confessed that he was afraid of statistics, seeing that in the coal industry, in which castings had almost become a fine art, Government experts had lately been in error to the extent of 35 per cent. (Laughter.) However, he ventured to announce that the actual membership of the Society was about 5,000, or, counting all who were associated, 7,000. A few words of wisdom followed concerning the industrial outlook. The next toast, that of "The Delegates," was in the hands of Sir William Pope, who handled his subject with a delightful blend of humour, appreciation, and hopefulness. Sir William made great play with the fact that a leading article on the Society's meetings had appeared in "The Times," whereas prior to the war, he believed, the President would have had to open a baby show at least to expect any such notice. He contrasted the rewards allotted to professional chemists for war services with those that the legal profession would have looked for in similar circumstances, and the repeated laughter of the audience effectively pointed the moral. Concluding on a serious note, he reminded his hearers that chemistry

was a subject of Imperial importance. Professor Moureu replied (in French) in a felicitous and eloquent speech that incidentally brought home to the audience (most of whom, of course, were British) "les angoisses ressenties," as he expressed it, of his own country. That aspect of the war, however, was not dwelt upon; Professor Moureu turned rather to the future. It was good to hear on such authority that Teutonic chemistry has been vanquished; and at this point, as at many others, the professor's speech was loudly applauded. Replies were also made by Dr. R. Lucion for Belgium, Dr. F. G. Cottrell for America, and Dr. Severini for Italy. The final toast, that of "The Guests," was proposed by Mr. John Gray, President-elect of the Society. Sir James Dobbie, in the course of a thoughtful acknowledgment, claimed that chemistry was much more than the handmaid of other vocations. If science declined, industries would decline. Applying Francis Bacon's distinction between pioneers and benefactors, he appositely remarked that the scientific investigator (the pioneer) should work in close touch with the industrial worker (the benefactor). Mr. W. B. M. Bird, Master of the Salters' Company, also replied, and gave in the course of his speech some interesting details concerning the promotion of chemical research by his company, thus bringing a successful evening to a close with a presage of further research work at no distant date.

Local Associations Executive Election.

Mr. A. R. Melhuish (chemists' representative on the London Insurance Committee) has been selected as one of the candidates of the Metropolitan group.

Mr. C. Smalley (Ipswich), President of the East Anglia Federation of Pharmaceutical Associations, has been adopted as candidate in the forthcoming election of the Federation, which covers four counties as well as parts of others adjacent. Mr. Smalley has already shown capacity and enthusiasm.

Mr. J. A. Haynes, chemist and druggist, Parkstone, Dorset, has been nominated by the Dorset Pharmaceutical Committee for election to the Local Associations Executive. He is a Past-President of the Bournemouth Pharmaceutical Association, and possesses wide experience as a pharmacist and organiser. He has been a useful member of the Dorset Pharmaceutical Committee, and of the County Associations Executive, since their inception.

SIR WILLIAM CROOKES, O.M., Kensington Park Gardens, Notting Hill, London, W., who died on April 4, has left estate of the value of 29,013L 18s. 4d., the net personality being 16,977L 18s. 2d. The will and codicils are proved by the sons, Bernard Humphrey Crookes, Newcastle-on-Tyne, and Lewis Philip Crookes, Barrow-in-Furness. The testator gives 1,000/- to his son-in-law, Mr. Cowland, 500/- in trust for his grandson, William Raymond Crookes, 500/- to his daughter-in-law, Nina Crookes, and the residue of the property to his children.

"HEARTY GREETINGS."—P. Samuelson & Co., 21 Mincing Lane, E.C., have received the following letter from the Société anonyme des Parfums Synthétiques, Bâle, Switzerland, signed by Dr. Mehrlander, late of the firm of Dr. Mehrlander & Bergmann, Hamburg:

As we have not had any connection with you for a long time, we kindly ask you if you are in the case to take up at the present time our former good relations of many years. Will you kindly tell us if you will work with us as you did before, or what other proposals you will have to make? With hearty greetings, especially to Mr. Samuelson.

To this camouflaged Hun the following reply was sent: "Messrs. P. Samuelson have received Dr. Mehrlander's letter of July 10, but have no proposals to make."

In the record of a feast given by the Salters' Company of London in 1506 occurs the entry, "One ounce and half saffron—vj.d."

Births.

GIBSON.—At 57 Grahame Street, Johnstone, on July 9, the wife of William B. Gibson, chemist and optician, of a son.

LINDSAY.—At 16 Cassillis Road, Maybole, on July 15, the wife of J. Martin W. Lindsay, D.C.O., pharmacist and optician, of a son (William Stanley).

Marriages.

BELL—RITSON.—At Carlisle, on July 9, by the Rev. W. E. Strickland, Alfred Redmayne, second son of Mr. Joseph Bell, Stanwix, Carlisle, to Ruth Dorothy, only daughter of the late Mr. Fletcher Ritson, chemist and optician, Carlisle.

KIRKHAM—HAMPSHIRE.—At Wadsley Parish Church, on June 24, by the Rev. G. C. Weaver, Sydney, youngest son of Mr. Wm. Kirkham, 7 Priory Place, Sharroow, to Edith Annie, only daughter of Mr. F. R. Hampshire, chemist and druggist, 304 Middlewood Road, Sheffield.

PARKER—BARCLAY.—At the Parish Church, Bromsgrove, on July 10, by the Rev. H. D. Noel-Paterson, Vicar, Captain Phillip G. Fitzgeorge Parker, late King's (Liverpool Regiment), to Marjorie Pethybridge, youngest daughter of Sir Thomas Barclay, Blackwell, Worcestershire.

WALLINGTON—POOLE.—At Northwich United Methodist Church, on July 9, Herbert Wallington, chemist and druggist, to Dorothy Muriel, daughter of Mr. W. H. Poole, Ivydene, The Crescent, Northwich.

Deaths.

CAMPBELL.—At 1 Albert Street, Rusholme, Manchester, on July 11, after a brief illness, Mr. John Gillies Campbell, aged seventy. Mr. Campbell had been a member of the staff of Hough, Hoseason & Co., manufacturing chemists, Pendleton, for some years. He had many friends in pharmacy, and was much esteemed for his upright character and devotion to duty.

FISCHER.—The death is announced of Dr. Emil Fischer, Berlin. Dr. Fischer was born in 1852. After graduating at Bonn University, he took up chemical research, and became known as an original worker in purins, proteins, and the synthesis of sugars. In 1902 he was the Nobel Laureate. Prior to the outbreak of the recent war, he held various honorary degrees in Great Britain, among them being those of Sc.D. (Cantab.), F.R.S., F.C.S., and the honorary membership of the Pharmaceutical Society.

FITZJOHN.—At Liverpool, recently, Mr. Francis Fitzjohn, chemist and druggist, Coedpoeth, aged sixty-one. Mr. Fitzjohn opened in business at Overton, Flintshire, in 1884, and during his twenty-four years' residence there entered fully into the public life of the parish, holding office as chairman of its Council, churchwarden, and trustee of various charities. On retiring he removed to Coedpoeth. He leaves a widow and two daughters.

GIBSON.—At Leicester, recently, Mr. Henry Atkin Gibson, chemist and druggist, aged eighty. Mr. Gibson carried on for many years at Spalding the pharmacy now owned by Mr. Harry Pye, and on retiring went to reside at Leicester. He leaves a widow, three sons, and two daughters. The funeral took place on July 11.

GUY.—At 28 Eign Street, Hereford, recently, of heart failure, Mr. Edwin Guy, chemist and druggist, aged eighty-four.

LEITCHHEAD.—At Chester, recently, Mr. John Henry Leitchhead, chemist and druggist, 11 Lower Bridge Street. Mr. Leitchhead passed the modified examination in 1872, and two years later acquired the business of which he remained the proprietor for forty-five years. The business was founded in 1830 by the late Mr. John Brodie. Mr. Leitchhead had for some years past been regarded as the "father" of Chester pharmacy (*C. & D.*, II., 1914, p. 156), and his loss is widely felt. He leaves two sons.

MABEN.—At Singapore, on July 4, of influenza, Mr. Thomas Morison Maben, Ph.C., F.C.S., managing director of Maynard & Co., Ltd., third son of Mr. Thomas Maben, Ph.C., Herne Hill, London, S.E. 24, aged thirty-two. Mr. Maben studied at the Bloomsbury Square School of Pharmacy, passing the Qualifying examination in 1908, and the Major in 1912. After gaining further experience with Savory & Moore, Ltd., New Bond Street, London, W., he took up an appointment with Maynard & Co., Ltd., Singapore, in 1914, and three years later became a director of the company. As the Secretary of the Straits Pharmaceutical Association, Mr. Maben was actively identified with all that affected pharmacy in that part of the world. In 1915 he sent a vivacious account of his adventures during the mutiny of an Indian regiment stationed in Singapore (*C. & D.*, I., 1915, p. 442); and so recently as last November (*C. & D.*, 1918, p. 964), he contributed an interesting letter to our columns on the salaries of assistants in the Far East. Mr. Maben was one of the British visitors to the International Congress of Pharmacy which met at Scheveningen in September 1913. He leaves a widow.

MACLAGAN.—At his residence, 5 Coates Crescent, Edinburgh, on July 12, Mr. Robert Craig MacLagan, M.D. Dr. MacLagan was born in Edinburgh in 1839. He had an extensive private practice and a professorship at Edinburgh University, and, in addition, was chairman of A. B. Fleming & Co., Ltd., manufacturing chemists, Edinburgh and London, for over thirty years.

MAITLAND.—At a nursing home, on July 6, Mr. Frank Maitland, J.P., chemist and druggist, 31 Chapel Street, Stonehouse, Plymouth. Mr. Maitland, who qualified in 1881, took for many years an active part in the public life of the Three Towns. In addition to his duties as a magistrate, he was a member of the Town Council and Chairman of the Plymouth Club Committee. Mr. Maitland also had his share in promoting the interests of pharmacy. He was one of the original members of the Plymouth and District Association of Pharmacists (founded in 1893), and served a term of office as President. When the British Pharmaceutical Conference met at Plymouth in 1899, Mr. Maitland was a member of the local Committee. He was also well known in Masonic circles. The funeral took place at Plymouth on July 10, when a large number of friends assembled to pay the last tribute. The Plymouth Association of Pharmacists was represented by Messrs. J. D. Turney, Ph.C. (President), A. D. Breeze, G. Breeze, F. W. Hunt, Ph.C., C. J. Park, Ph.C., R. F. Roper, Ph.C., and F. A. Spear.

RIDING.—Recently, Mr. Joseph John Riding, chemist and druggist, aged eighty-four. Mr. Riding was for many years in business at Heeley, Sheffield.

SIMPSON.—At Carlisle, recently, Mr. Peter Simpson, chemist and druggist, 105 Denton Street, aged sixty-seven. Mr. Simpson had been in business in Carlisle for many years. He leaves a son, Mr. Peter Simpson, jun., chemist and druggist, who is in business in Church Street, Carlisle.

URQUHART.—At a nursing home, Edinburgh, on July 12, Mr. Robert Urquhart, chemist and druggist, 2 Thirlestane Road. Mr. Urquhart, who qualified in 1893, was manager to Boots, Ltd., at their branch in North Bridge Street.



MR. T. M. MABEN,
PH.C., F.C.S.



MR. F. MAITLAND, J.P.

Personalities.

MISS MURIEL WILSON, elder daughter of Mr. F. W. Wilson (J. I. Macfarlan & Co., Edinburgh), has recently graduated B.A. at Leeds University.

MR. ALFRED ERNEST HOBBS, J.P., Ph.C., Tunbridge Wells, has been appointed Director of Ceremonies of the Provincial Grand Lodge of Kent Freemasons.

MR. C. COUTTS MICHIE, chemist and druggist, of C. Coutts Michie & Co., chemists, 175 Kentish Town Road, London, N.W., has been appointed a Justice of the Peace for the Borough of St. Pancras.

THE directors of Howards & Sons, Ltd., Ilford made, on July 12, a presentation to Mr. George Parker, who has completed sixty years' service with the firm. Mr. Parker started as a boy of eleven years of age, and well remembers Mr. Luke Howard, F.R.S., who founded the house in 1797.

ALDERMAN R. P. REES, J.P., chemist and druggist, Mayor of Merthyr Tydfil, has inaugurated in Merthyr a peace memorial fund for the purposes of assisting cases of necessitous circumstances arising through delayed or inadequate payments to dependants of members of the Forces. Inhabitants of the borough have been asked to contribute the equivalent of their average day's income.

MR. A. R. ARROWSMITH, who was recently demobilised, has been appointed London manager to the Apollinaris Co., Ltd., the proprietors of Apollinaris water. Mr. Arrowsmith has been with the company for twenty-seven years, and travelled the country for the greater part of the time. He is well known to chemists on this account, and because of the willing service he has rendered for some years in making a success of the social features of the Chemists' Assistants' Association. In conversation with Mr. Arrowsmith we learn that the Apollinaris property in Central Europe has been kept in working order, notwithstanding that it is owned by a British company. The first supply of Apollinaris to reach this country since the war is in the Thames, so that Apollinaris bids fair to revive its longstanding popularity in the near future. Mr. Arrowsmith is succeeding Mr. Richard Pain, who is retiring after forty-four years' service.

MR. JOHN GRAY, F.I.C., who has been elected President of the Society of Chemical Industry, is past-Chairman of

the Liverpool section and Vice-Chairman of Lever Bros., Ltd. He is a Scotsman, and was educated in Edinburgh, receiving his chemical instruction at the University and at the Heriot-Watt Institution, and his practical chemistry training with Mr. J. Falconer King, formerly city analyst. Afterwards, Mr. Gray joined Clippens Oil Co., Ltd., as chemist,



Photo.]

[Elliott and Fry.

MR. JOHN GRAY.

working under the late Mr. Wm. Young. After a time Mr. Gray became works manager. In 1898 he joined the staff of Lever Bros., and has been with the company ever since, being successively general works manager (1902), deputy director (1904), managing director (1906), and Vice-Chairman (1918). Mr. Gray has been a member of the Society of Chemical Industry for thirty-three years, and, in addition to his connection with the Liverpool section, already referred to, has served on the Committees of the Glasgow and the East of Scotland sections. He was elected a Vice-President of the Society in 1917.

Westminster Wisdom.

By the "C. & D." Parliamentary Representative.

NATIONAL REGISTRATION ACT.

Dr. Addison informed Sir Kingsley Wood on July 10 that the National Registration Act will expire on the date of the termination of the present war; and the precise date, as soon as it has been determined by Order in Council, will be made known to local registration authorities. Those authorities are being advised that in the meantime all duties under the Act, whether of the authorities themselves or of the public, may properly be suspended.

COST OF COAL.

It was announced in the House of Commons that the price of coal would be increased by 6s. per ton, and an Order to that effect was issued. As a result of an attempt to arrive at a compromise the operation of the Order has been postponed for the present. The Federation of British Industries published an estimate of the increased price which would be necessary if the original Order had become effective. The increased cost in the case of chemicals was put at 10 per cent.

LINSEED OIL FOR GERMANY.

Captain Brown, in the House of Commons on July 11, asked the Food Controller what was the date when the agreement to supply Germany with 25,000 tons of linseed oil, at 78d. per ton, was made; if this amount has now been delivered; and if any further agreements to supply linseed oil to Germany have been made.

Mr. Roberts replied: Approximately 12,000 tons of linseed oil have been delivered to Germany under the agreement of March 31, 1919. The answer to the last part of the question is in the negative.

SPECULATION IN OIL SEEDS.

The Food Minister informed Colonel Dalrymple White on July 16 that some instances of speculative purchases of oil seeds were recently brought to his notice, and action has been taken. Dealings in these commodities are now restricted to legitimate traders who have been licensed for the purpose, and it is a punishable offence for any unlicensed person to buy, sell, or otherwise deal in them.

THE DENTAL PRACTICE COMMITTEE.

On July 16 Mr. Jesson asked the Minister of Health whether an amending Bill to the Dentists' Act, 1878, is in course of preparation; if so, whether this Bill will appoint, in accordance with the recommendations of the Departmental Committee of Dentistry, an *ad hoc* Committee to inquire into the eligibility of unregistered dentists for registration; whether the personnel of this *ad hoc* Committee has already been decided upon; whether the Incorporated Dental Society, Ltd., will have representatives upon it, and how many; and whether he can state why the National Dental Association, an organisation which represents at the present moment over 800 unregistered dental practitioners, who each, by the terms of his agreement with the Association on assuming membership, undertakes not to canvass or advertise for patients, and makes a declaration that he has been in practice for a period of five years as a dental assistant or practitioner wholly engaged in operations on the mouth before February 5, 1919, has not been accorded equality of treatment with the Incorporated Dental Society, Ltd.

Dr. Addison replied: No, sir, most of the proposals referred to in the report of the Committee must form part of the general scheme for improved health services for the nation which the Ministry of Health are concerned to develop as soon as possible, but there has not yet been sufficient time to work out such a scheme, nor to consider adequately the various recommendations of the Committee in question as regards dental registration. The other points in the question, therefore, do not arise.

Trade Notes.

ZENOBIA SOAP.—The retail prices of Zenobia soap have been raised to 1s. 9d., 2s. 6d., 3s. 9d., and 4s. 6d. The prices are in force forthwith.

ASPIRIN TABLETS.—A list of sources of supply of aspirin tablets at reduced prices (*C. & D.*, July 5, p. 58) is given in an advertisement in this issue.

J. T. DAVENPORT, LTD., 117 Union Street, London, S.E. 1, are closing their office and warehouse on Saturdays from July 19 to September 27 inclusive.

CHAS. HAMSON & CO., 46 Cowgate, Peterborough, inserts in this issue a list of special offers of chemicals, drugs, and pharmaceutical preparations. [Corrected notice.]

LOSALL'S SALT.—The revised prices for Losall's Salt are given in the advertisement of Lofthouse & Saltmer, Ltd., Hull. The retail prices on and after July 17 are 10d., 1s. 7d., and 2s.

J. F. MACFARLAN & CO., Abbeyhill Chemical Works, Edinburgh, will close their Edinburgh office and warehouse (only) on July 19 and July 26, and their works from July 18 to July 28.

CYNTA HYGIENIC TOWELINES.—The Cynta Manufacturing Co., St. Thomas's Place, Stockport, have completed arrangements by which supplies of Cynta hygienic towels can be drawn from their London warehouse at 151-157 Goswell Road, E.C. 1.

PRANA SPARKLETS.—Aerators, Ltd., Edmonton, N. 18, announce that "B" and "C" bulbs can now be supplied promptly on receipt of order. It should be noted that "C" bulbs may be used instead of "D" bulbs without any alteration to the syphon.

FRENCH PERFUMERY.—Ayrton, Saunders & Co., Ltd., Liverpool, have been appointed sole wholesale agents in the United Kingdom for Salmon and Chaney, Paris. The firm are manufacturers of perfumes and toilet articles, some of which are enumerated in Messrs. Ayrton, Saunders & Co.'s advertisement which appears in this number.

NEW SEASON'S COD-LIVER OIL.—Freudentheil & Co., 21 Mincing Lane, London, E.C., send us a sample of new season's non-freezing Lofoten cod-liver oil manufactured by Brödr. Aarsæther, Ålesund, Norway, which has all the characteristics which are expected from a new oil. The taste is bland and odour very slight. Messrs. Freudentheil only deal in wholesale quantities of this product.

FOUNTAIN PEN BONUS.—Raymet & Co., Ltd., 507 and 509 Harrow Road, London, W. 10, in their advertisement in THE CHEMIST AND DRUGGIST, July 5, made a special offer of Raymet shampoos, a 14-ct. gold-nib fountain pen being also given free with a gross of 3d. shampoos. We have since received for inspection one of the fountain pens, and find it a genuine article which those who receive are sure to appreciate.

HOWARDS' ASPIRIN TABLETS.—The advice of the trade is sought by Howards & Sons, Ltd., Ilford, London, in regard to the price of their Aspirin tablets. The company have been urged to place this product on the protected list of the Proprietary Articles Trade Association, and it is suggested that the retail price should be 1s. and the price to the retailer 7d. Will readers please refer to the company's advertisement in this issue?

OSMOS APERIENT WATER.—Valentine, Ord & Co., Ltd., Hayes, Middlesex, are advertising in this number a British aperient water under the name of Osmos. The water is packed in quart bottles, effectively labelled, the label being arranged with pale-blue panels. Osmos is stated to be of the same composition as foreign mineral aperient waters and to be useful in many complaints which require that the bowels shall be relaxed. The retail price is protected under the scheme of the Proprietary Articles Trade Association.

"CAMERA," a correspondent informs us, is the name of a Midlands pharmacist's dog gifted with snapping propensities. "T. P." would perhaps have been more definitive.

Business Changes.

BOOTS, LTD., are extending their premises at 49 High Street, Notting Hill Gate, London, W. 11.

MILTON MANUFACTURING CO., LTD., 125 Bunhill Row, London, E.C. 1, have opened a branch office and dépôt at 37 Piccadilly, Manchester.

MR. L. VENABLES, chemist and druggist, King Street, Hammersmith, London, W. 6, has opened a branch at 248 North End Road, S.W. 6.

MR. TRAVIS, Whitecross Street, London, E.C. 1, as purchased the business known as Barnes's Drug Stores, 313 High Street, Stratford, E. 15.

DENNISON'S, LTD., chemists, King's Road and Calc Street, Chelsea, London, S.W. 3, have taken over the Holbein Pharmacy, Pimlico Road, S.W. 1.

FRANCIS NEWBERY & SONS, LTD., 27-35 Charterhouse Square, London, E.C. 1, have opened additional works in Newcomen Street, Borough, S.E. 1, and a provincial depot in Cardiff.

L & M. LEWIN BROS., vermin-killer manufacturers, have removed from Cromwell House, High Holborn, London, W.C. 1, to larger premises at 8 Moor Street, Charing Cross Road, W. 1.

MR. W. BEVAN, PH.C., Colchester and Harwich, has taken into partnership (at his Harwich branch) Mr. F. A. Stooke, Ph.C., late branch manager to Mr. A. B. Makepeace, chemist and druggist, Sanderstead.

MR. J. TIMMS, chemist and druggist, has, in consequence of ill-health, disposed of his interest in Gamble & Co., chemists, 4 Edwardes Terrace, Kensington, London, W. 8, to Mr. Shrive, Hampstead, N.W., who will carry on the business under the same style and title.

THE BUSINESS of the late Mr. Naysmith Kydd, 781 Fulham Road, London, S.W. 6, which had been closed for some months owing to the manager having to join the Forces, has been reopened by Mr. Leadshawe, chemist and druggist, who has recently been released from the Army.

HERTZ & CO., 9 Mincing Lane, London, E.C. 3, have purchased the building at 20 Bevis Marks, which they are organising as a warehouse, the firm having outgrown their present accommodation. They hope to remove early in September, but the offices will remain at 9 Mincing Lane.

THE ASSOCIATION OF MANUFACTURING CHEMISTS, LTD., has (through Mr. Parkin S. Booth) disposed of the following businesses by private sale : 36 High Street, Wimbledon, London, S.W. 19, formerly belonging to Mr. W. R. Wheeler, chemist and druggist (trading as Pooley & Co.), to Mr. J. W. Arthur, chemist and druggist; 15 Hill Road, Wimbledon, formerly belonging to Mr. W. R. Wheeler, to Mr. Edwin Dawber, chemist and druggist; The Beach House Pharmacy, Brixham, formerly belonging to the late Mr. J. P. Swaffin, to Mr. W. R. Wheeler.

Information Department.

INFORMATION WANTED.

219/24. "Pepsodent" or "Pepsodent" tooth-paste	222/58. "Cream of Olives"
219/33. "Martineco" oiled silks	222/57. "Antiparistix"
220/1. Extrusion Presses for collapsible tubes	224/8. "Diatomos"
219/56. "Eau de Phoenix"	225/7. "Ozenene" and Suc- cus Cineraria Maritima
221/45. Laetogenics tablets	224/17. Scarlet green
222/59. Dr. Ritchie's Foot- Easer	223/67. Ivos dental cream
	"Red Angle" made by "K. Co."

INFORMATION SUPPLIED.

"Albulactin," 212/74	"Mikado" toilet-paper, 214/20
"Astol," 212/71	Milk, dried, 164/30
"Crembas," 215/70	Wilner's easy cleaner, 190/1
"Cremogen," 215/70	Oleic acid, 197/30
Crêpe Pur Rubber (Swedish ina.), 203/49	"Orisal" tooth paste, 199/2
"Cuticura" specialities, 216/63	Owbridge's lung tonic, 208/40
"Grip Tight" tent, 199/44	"Pebeco" tooth paste, 152/10
Hooftteke's appliance, 214/30	Pennyroyal leaves, 177/45
Hogarth's, Dr. chest-expanding braces, 211/58	"Petol" salve, 212/33
Menthon cones, 179/13	Phormoid tablets, 188/30
	Pieric acid, 185/59
	"Radicol" bath-salt, 214/22

Observations and Reflections.

By Xrayser II.

The Memorial Hall Meeting,

fiasco as it was for the Council, was anything but a fiasco for their opponents. It will have—indeed, it has already had—effects that will be far-reaching and more important, if possible, even than the defeat of the by-law. The President and his supporters have made themselves ridiculous, and a governing body which does that is doomed where public opinion has any power. The immediate result of the meeting has been the formation of a fighting party at the Progressive Pharmacy Club, organised for action, pledged to the overthrow of the bureaucracy under which we suffer, and confident of victory. This is precisely what has long been wanted, the by-law has called it into being, and will prove to have been the occasion for which the cause has waited.

Meanwhile

the person who has suffered most by the events of July 2 is the Secretary. The President had little to lose, but Sir William Glyn-Jones, the engineer of the affair, who has been literally "hoist with his own petard," had much. His fatal eloquence betrayed him. When the heads of the Council called this doughty knight to their assistance, mounted on his fiery-footed Pegasus, they forgot that Pegasus, though a good horse if well managed, is apt to bolt. He bolted with Sir William, who spurred him too hard. The result was that the champion was carried far beyond the actual field of conflict, wearied his audience by his verbosity, and, while pursuing an almost captured wing of the enemy, left his centre and rear open to the deadly assaults of Miss Gilliatt and Messrs. Wolff and Skinner. It is not the first field that has been so lost, as witness Marston Moor. It is Sir William's first defeat, but it will not be his last if he continues to fight for the reactionaries.

Assistants,

whether pharmacists or not, will gain nothing by making impossible demands. Their demands, moreover, should be rational as well as possible, and, frankly, some of those recommended at the "Vigorous Meeting at Sheffield" are neither. There can indeed be no rational fixed scale of salaries for assistants until the term "assistant" is itself rationalised. These recommendations propose to define it as "one who has served an apprenticeship under a pharmacist," but this gives us no criterion whatever of the value of the assistant. To fix the minimum wage of such at 5*l.* a week, irrespective of the length or character of the apprenticeship and of the competence of the person who has served it, is absurd. I have had assistants fresh from a regular apprenticeship who were, literally, not worth their salt. I say nothing of the demand of 7*l.* a week as the minimum salary of a qualified man, except that there are precious few pharmacists who could afford to give it; and that we have no assistants' examination which will afford us some evidence of competence. Let me recommend assistants to read the letter of Mr. Samuel Hogg in your issue of July 5, and make the adoption of his educational scheme here in Great Britain their first demand.

"Druggist,"

it seems, is still in common use in the United States for "chemist" as a name for the pharmacist in business. I say "still" because undoubtedly this is a survival of our old English custom. In this respect it resembles many others of the older so-called Americanisms, which were good current English when the early emigrations to New England and Virginia took place, but have gone out of use here since, except in local dialects. Very many of the words claimed as peculiar to New England, for instance, by Mr. Grant White and Lowell I have heard familiarly in the neighbourhood in which the leaders of the Pilgrim Fathers grew up. So with the word "druggist"; both this and "drugster" were still common in country places in my youth, and "druggist" is

still the only title on a good many chemists' shops in rural districts. This is not at all to the prejudice of "chemist" as our legitimate title. The latter has quite as much historical justification as the other, though it did not "catch on" quite to the same extent; like "pharmacis," it was perhaps looked askance at by some old-fashioned people.

The Scheduling of Alcohol

along with opium, chloral, etc., as proposed by the British Temperance League, would at least have the merit of recognising that, contrary to the contention of the more extreme teetotalers, alcohol has some medicinal virtue. On this subject I recommend any who are in doubt to study the very careful and judicial article on alcohol in Dr. Mitchell Bruce's "Materia Medica," which extends over eight closely printed pages, and will, I think, commend itself to all unprejudiced persons who have either experienced or have had the opportunity of a wide observation of the moderate use of alcohol, whether in beverages or medical prescriptions. There can hardly be a question that it will be so as regards the latter use, and Dr. Bruce's assertion that alcohol has some dietetic value, in that it "contains more energy than starch and sugar" and "acts as a saver of protein," is not lightly or inconsiderately made. I need hardly say that he is fully alive to the danger of excess, and he would probably disallow the use of alcohol in any form except under medical direction.

The Eleventh Edition

of Dr. Mitchell Bruce's "Materia Medica and Therapeutics," prepared, with the assistance of Mr. W. J. Dilling, to meet the war emergency, and published by Cassell & Co. in November last, though already happily out of date as regards the war amendments, has a value of its own in that it has been thoroughly revised throughout and contains notices of some forty new remedies and a great deal of information on the important subjects of antiseptics and surgical dressings, which have been so extensively developed during the war. The manual is, of course, intended primarily for medical practitioners, but *materia medica* occupies a considerable part of its space, and even the part devoted to therapeutics is worth studying by pharmacists and all who have to do with medicine in any of its branches. It is not for me to criticise what is said of the actions of drugs, beyond saying that it is very clearly said and shows a wide and intimate acquaintance with the subject. The section dealing with pharmacy is more open to remark. The author's distinction between compounding and dispensing may be academically correct, but it is unusual, to say the least, to limit dispensing to "the method of packing, labelling, and delivering the medicine to the patient"; and it seems inconsistent, after defining chemical pharmacy as "the art of preparing remedies of definite chemical composition," to treat such subjects as infusion, decoction, filtration, etc., under this head. A curious preference is shown for rolling pills on a pill-tile with a rigid spatula instead of on a pill-machine, and one, at least, of my old preceptors would have regarded the spreading of blister-plasters with the thumb as a dirty and indefensible method.

Dutch Drops

according to Rennie, are or were obtained by distilling oil of turpentine in a glass retort till a red balsam remains. This is the old bals. terebinthinae. He also says it may be made (as bals. tereb. sometimes was) by distilling resin, or by dissolving flowers of sulphur in oil of turpentine in the proportion of 1 to 16. The last most resembles the imported Dutch Drops I used to be familiar with. The home-made variety in commonest use is the mixture of sulphur balsam and turpentine given by you—the most loathsome stuff that mortal ever swallowed. I remember a man returning a bottle of it with the remark that, having tried it, he preferred lumbaro. It is essentially the bals. sulph. terebinthinate of the Edinburgh Pharmacopœia. Besides this there were three official balsams of sulphur flavoured respectively with oil of anise, oil of juniper, and oil of amber, and bals. sulph. crassum made with flowers of sulphur and olive or linseed oil.

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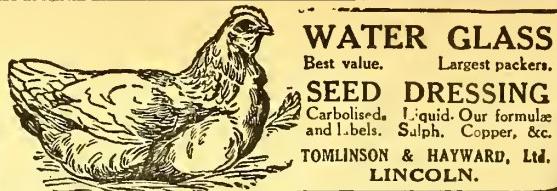
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A n announcement of particular interest to you appears in this issue on page xli.

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PATENTS AND TRADE MARKS.

There are many worrying difficulties to be overcome in connection with the Registration of Trade Marks and the grant of Letters Patent which members of the Retail and Wholesale Drug Trade can avoid by consulting an efficient agent, who would undertake all the trouble for an inclusive fee and obtain protection in the United Kingdom and abroad. Advice in the first instance free. Pamphlets gratis.

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Editorial Articles.

Emancipating Chemical Industry.

THE key-note of the address of the President of the Society of Chemical Industry, of which an abstract is given elsewhere in this issue, is that as a result of the war chemical industry has been emancipated from German control. What this means can only be understood when it is considered that we were dependent upon Germany for many chemicals essential for conducting war and for the life of the country. The topic is not a new one to readers of THE CHEMIST AND DRUGGIST, as we have consistently held the doctrine that the German chemical monopoly must be broken at all costs. Germany had been preparing for war for many years, and deliberately

planned its chemical works for conversion into explosives factories. Moreover, a studied policy had been carried out for many years of placing other countries at a disadvantage in case of war. It was not only this country, but our Allies, who felt the effect of this policy when war broke out, and hence the triumph of our chemists is more complete in that not only have enormous quantities of explosives been made with plant erected since 1914, but during that time hundreds of chemical processes have been worked, and the products brought into use. The position of professional chemists in this country was scarcely recognised by the Government before the war; but, through Lord Moulton's quick grasp of the situation, all the chemical workers were at once mobilised for essential chemical manufacture. The address relates some of the departments which our chemists developed enormously, and in a comparatively short space of time. Professor Louis said he firmly believed that German chemists had persuaded the German nation, possibly even themselves, that they were so far superior to the rest of the world in chemical knowledge that any competition with them in chemical warfare would be hopeless. They soon found, however, that British chemists were more than a match for them, and so soon as we felt bound to employ retaliatory measures in kind, it rapidly became evident on which side lay the real superiority in chemical inventive powers and technical ability. This phase of the chemist's work in warfare has fully vindicated the high qualities of British chemistry. The one great fact that emerges is that our chemical industry has shown itself capable of sustaining successfully the fiercest and most strenuous competition that it has ever been called upon to face. Utterly unprepared for war conditions, and apparently unsuited to war emergencies, it has shown itself more resourceful, more energetic, and more successful than any of us had dared to hope. It seems certain that we could never have built up so rapidly this vast edifice of chemical industry if the foundations upon which we had to build had not been thoroughly sound. In these results Professor Louis saw in the teaching of science, and particularly of scientific technology, the British are quite on a par with any other nation. It has often been urged by those whose "spiritual home" is Germany, and who look upon German educational methods as the acme of perfection, that we ought to model our methods of technical teaching upon German lines. This war has shown that our teachers who have steadfastly adhered to the methods that suit our national idiosyncrasies can claim to be justified by the results obtained; we can certainly learn much of the organisation of scientific education and much of the respect due to science from our enemies, but we shall do well to adhere to our own essentially British methods of technical education. The need now is to maintain our productive capacity and increase our outputs. This is a task that cannot be accomplished by scientists and technologists alone, but in co-operation with the workers. It happens that further light on the extinction of the German chemical monopoly is given this week by a White Paper (dated May) issued by the National Health Insurance Commission, which relates the special measures taken to ensure an adequate supply of drugs and medical stores during the war. In a prefatory note Major Waldorf Astor, Chairman of the National Health Insurance Joint Committee, describes how we depended on Germany for the supply of many highly important synthetic drugs and other medicinal chemicals of which there were no reserves in the country. The following list is given in the Report as comprising chemicals in which Germany had practically a monopoly and that are now produced commercially in the United Kingdom:

Acetysalicylic acid.	Phenacetin.
Salicylic acid.	Novocain.
Sodium salicylate.	Eucaine.
Methyl salicylate.	Salvarsan.
Salol.	Neo-Salvarsan.
Liquid paraffin.	Paraldehyde.
Potassium permanganate.	Resorcin.
Thymol.	Lanolin.

We have given similar lists before, but this is useful, as it comprises the most familiar of the new chemical

manufactures which have been started in this country. A Committee of the Royal Society undertook to work out processes for the manufacture of new products. Novocain is an example of the successful manufacture of a synthetic drug which is built up by a number of chemical processes of great complexity and technical difficulty. The drug was required by the medical departments of the Navy and Army, and the aid of the Royal Society was solicited for the purpose. The assistance of about forty university and college laboratories throughout the country was enlisted, and suggestions sent for processes for the production of diethylamine and glucol-chlorhydrin' needed for making diethylamino-ethanol the penultimate stage in the manufacture of novocain. Over 350 lb. of novocain was made, and at the present time the world's requirements for novocain could readily be met by British manufacturers. In like manner the processes for making beta-eucaine were worked out, and over 216 lb. made for use in the Navy and Army Medical Services. The ordinary processes have been improved in various respects, and six manufacturers propose to make the drug on a commercial scale. The special carbohydrates required for bacteriological work were also of German origin before the war. St. Andrews University chemical laboratories made over 350 oz. of dulcitol, whilst there were also produced 8 lb. 13 oz. of levulose, 8 lb. 15 oz. of inulin, and 29 oz. of arabinose. The last-named was made from cherry gum, gum arabic, and beet-root shavings, and several tons of dahlia tubers were employed in making the levulose and inulin. New-orthoform and butyl chloral hydrate were also made in scientific institutions. A firm was enabled to commence the manufacture of salol after facilities had been given for the supply of phosphorus oxychloride. The Asylums Committee of the London County Council were supplied with 64 lb. of paraldehyde at a time when the drug could only be obtained with great difficulty through the ordinary channels. As a rule no names are mentioned in the Report, but Mr. T. E. Lescher is specially mentioned for the part he took as Hon. Secretary of the Drug Club in arranging the allocation of oils needed for the manufacture of pharmaceutical preparations. The Department also took steps to obtain from abroad certain raw drugs such as santonin, ergot, bromine, and opium of Turkish origin. Of the last named, 115 cases, each containing 150 to 160 lb. of opium, were purchased abroad and disposed of in this country, whilst from France were obtained 4½ tons of aspirin, 2½ tons of phenazone, and 2 tons of phenacetin. We note that the Insurance Commission has made a profit on its transactions of 24,000*l.*, which is probably one cause of the large increase in the cost of drugs. It is recommended that the future development of the British production of drugs should be carefully watched, that suitable encouragement should be afforded to the industry where necessary, and that there should be some agency for bringing scientific workers and manufacturers into touch with each other. It is suggested that these functions be entrusted to some Department of State. The Report mentions the Ministry of Health, but we suggest that some body especially cognisant with pharmaceutical matters, such as the Pharmaceutical Society, would be more suitable.

The Importation of Chemicals.

THREE weeks have now elapsed since the Proclamation was issued prohibiting the importation of "certain classes of chemicals of a high degree of purity," but up to the time of writing the Department of Import Restrictions has not carried out its promise made when the Proclamation was issued (June 25) "almost immediately" to issue general licences for a large number of chemicals which do not answer to the above description. Many firms have applied for "general licences," but up to the present a mere acknowledgment that their application would "receive attention" has had to suffice. As a direct consequence of the Government's inaction there has been a tendency to advance the price of many imported chemicals, these including acetanilide, aspirin, amidopyrin, benzoic acid, bromide salts, formaldehyde, hexamine,

milk-sugar, methyl salicylate, phenacetin, phenazone, soda salicylate and vanillin. We understand that the Committee dealing with the control of the importation of chemicals has now been formed. Would it not be wise on the part of the authorities to publish the names of those serving on the Committee? It has been pointed out that many firms have a decided objection to committees on which trade competitors are allowed to sit, as it means that business secrets not otherwise obtainable are disclosed. It may be asked, "Is the Committee now constituted free from this objection, and does it represent the importer?" We understand that it is the intention of the Board of Trade to issue a list of chemicals that are to be excluded from importation, and that provision is to be made for such excluded chemicals to be imported in bond for re-exportation only. This is with the idea of conserving our export trade, and facilities will be given to repack such goods in order to suit customers' requirements and the various markets. This is a new departure, about which further details are awaited from the Department of Import Restrictions—with whom we have communicated, but at the time of closing for press no answer had been given. Exporters will want to know if the Committee is to have access to confidential information regarding export trade also. Last week we made it clear that the refusal to give licences to import vanillin would hit the consumer specially hard, as the supplies of British make are much under the normal demand. We have since been given to understand that, the Board of Trade have refused to issue licences for the importation, although users and merchants are doing their best to induce the Board to change their attitude. Prior to the war more than 90 per cent. of the vanillin used here was imported, principally from Germany, our purchases of "vanillin, coumarin, heliotropin, etc.," being 102,700 kilos. in 1913. The United States, and, to a less extent, English makers, have filled the breach, but the largely increased use in the cocoa, chocolate, and confectionery trades has brought about almost a famine, and the price keeps on rising. It is much to be regretted that the Board of Trade did not organise its machinery before setting the Proclamation in motion, as import business has been completely disorganised. Chemical merchants and dealers are inarticulate of expression as a body, but the time is evidently ripe for old-established and representative firms to sink their jealousies and close their ranks. Everybody is, of course, in the dark as to what the Government's future trade policy is to be, and we have been given to understand that it may not be announced until November 1, when the present Government may require a fresh mandate from the nation. A declaration was made some time ago by the Government that all import restrictions were to cease automatically on September 1, but failing the announcement of the economic policy it is possible that the present restrictions may be renewed. The doubt existing on this matter has caused much uncertainty in the minds of manufacturers who contemplate developments. It is curious that the attention of the House of Commons has not been directed to this Proclamation, as the Board of Trade appears to have initiated a trade policy of its own, and without the sanction of Parliament.

The Quicksilver Market.

THE further advance of 1*l.* per bottle enforced by leading importers on Tuesday to 22*l.* 10*s.* is well in keeping with the views recently expressed in this journal. Dealers now quote up to 23*l.* per bottle. It would, as a matter of fact, not cause much surprise if prices were fully restored to about the highest recorded in the war period. Imports from both Spain and Italy do not seem to come along quite fast enough to meet the demand, which is chiefly for export. Japan has been a fairly important buyer during the last few weeks, but the demand for India has been more particularly in evidence, and looks like being maintained. The American market is also very strong, while it is probable that the price which stood at New York at upward of \$95 per flask on June 30 has advanced further on account of the depleted state

of the market. The whole of the Government stock on that side has disappeared, as confirmed by the fact that the returns of various metals held by the War Department on June 1 make no allusion to quicksilver. Efforts are doubtless being made to work the better mines at their full capacity, in view of the urgent demand. Mexican quicksilver is being marketed in the United States in fair quantities. Reliable returns of the American output for the first quarter of this year give the total as 5,960 flasks (of 75 lb.), practically the whole of this emanating from twenty-three mines. The returns are made up thus: California, 4,023 bottles; Texas, 1,698 bottles; Oregon, 193 bottles; and Nevada, forty-six bottles. No production was reported from Idaho and Arizona. It may be mentioned that the quicksilver reported on hand at the mines or in transit to market at the end of March amounted to 4,419 bottles. The first quarter's output shows, as compared with the same period last year, a decrease of 2,804 bottles. This had been expected. The unsold stocks at the same date this year were 2,800 bottles, a decrease of 1,619 bottles against the end of last year. The shrinkage in the output is due in the main to the temporary lessened demand for the metal and the consequent fall in price in the early months of the year. Other obstacles have been the continued high cost of labour and supplies, as well as the curtailment of underground exploration. The output may possibly show some improvement for the current quarter, but costs of mining and treatment will continue high.

British Pharmaceutical Conference.

A MEETING of the Executive Committee was held at 329 High Holborn, London, W.C., on July 8, Mr. D. Lloyd Howard in the chair. There were also present Messrs. F. W. Crossley-Holland, A. R. Melhuish, and H. Skinner, with H. Fimmemore and R. R. Bennett (Honorary Secretaries).

It was reported that since the last meeting of the Executive the death had taken place of Mr. H. O. Huskisson, who was elected in 1872. The sincere sympathy of the Executive Committee with the relatives of the deceased gentleman was expressed from the chair.

The report of the Sub-Committee appointed to nominate officers and the draft annual report of the Executive Committee were submitted and deferred to the next meeting of the Executive on July 21. The draft programme of the annual meeting was submitted and approved.

The following new members were elected :

Mr. A. Abelson, Mr. A. W. Ashcroft, Miss M. I. Bedell, Mr. E. B. Brigham, Mrs. H. H. Charlesworth, Mr. F. Cherry, Mr. A. G. Cresswell, Mr. E. J. Cresswell, Mr. H. B. Figg, Mr. C. E. W. Fraser, Mr. C. W. Gosling, Mr. E. Grossman, Mr. J. E. B. Grice, Mr. R. M. Harvey, Mr. A. Hicks, Mr. F. G. Hines, Mr. E. Heathcote, Mr. M. S. Hughes, Mr. J. L. Hirst, Mr. W. H. Mallaband, Miss D. Maughan, Mr. J. Murison, Mr. T. H. Newton, Mr. W. A. Poucher, Mr. H. W. Pratt, Mr. F. Shaw, Mr. F. C. Oscar Shaw, Mr. K. G. Shaw, Mr. K. Saaman, Mr. W. Stocks, Miss B. Sharples, Mr. W. A. Scott, Mr. E. Skues, Mr. P. Sparks, Mr. W. G. Stuckey, Mr. A. T. Styles, Mr. W. B. Trick, Mr. C. Yeoman.

On July 2 the directors of Evans, Gadd & Co., Ltd., entertained the heads of the departments at Palmer & Edward's Restaurant, Exeter. Mr. H. Wippell Gadd, in expressing gratitude for the support given throughout the war, outlined plans for the development of the company's business.—The male members of the Exeter staff drove to Chudleigh Rocks on July 5, and were accompanied by Mr. F. Southerden, B.Sc., and Mr. S. C. Gadd.—At Bristol, on July 5, a supper was given to celebrate the signing of peace and the company's twenty-first anniversary in Bristol. Mr. H. E. Boorne (local managing director) presided, and was supported by Messrs. H. Wippell Gadd, W. J. Wippell, and F. Southerden (directors). An enjoyable musical programme was rendered and congratulatory speeches delivered.

The Chemists' Exhibition.

THE twentieth Chemists' Exhibition, organised by "The British and Colonial Pharmacist," is being held this week in the Northampton Institute, St. John Street, London, E.C., and remains open till Friday evening (July 18). Selections of music are played at intervals during each day, and light refreshments can be obtained. The stands, which fill two halls, evidence much skill in the art of display, and in some instances are, it may safely be said, in advance of anything hitherto accomplished from that point of view. In the following paragraphs we summarise our impressions of the Exhibition—the names of the principal exhibitors being arranged alphabetically.

AMBROSIA, LTD., claim that the Devonshire dried milk issued by them is specially suited to the needs of infants and invalids. The product is packed in tins of several sizes, and is guaranteed "full-cream."

THE ANGELIQUE CHEMICAL CO., LTD., had their stand specially designed by a scenic artist to illustrate the trademark of the company. The dentifrices of this company are prepared under the supervision of a qualified medical man.

ANGLO-AMERICAN PHARMACEUTICAL CO., LTD., have a strikingly distinctive stand, in the centre of which is a showcase containing "Huxley" glycerophosphate syrups and other "Huxley" products. During the war this company have developed its side-lines with great enterprise and judgment, and retailers in search of smartly packed goods cannot do better than make inquiries here. Some of the lines, such as "Sapo-Lavand," "Zita" baby powder, and Huxley's Vanishing Cream, have in a high degree the valuable quality of individuality. The artistic posters on the walls of the stand should not be overlooked.

ANGLO-FRENCH DRUG CO., LTD., have a display consisting of high-class pharmaceutical products, the evolution of which has involved a great deal of research. Ambrine is perhaps the best known of these; other specialities of growing repute are cuprase, coumarol, and veronidia.

THE ASSOCIATION OF MANUFACTURING CHEMISTS, LTD., have a stand for the purpose of answering inquiries concerning valuations, transfers of business, collection of accounts, and similar matters.

ROBERT BAILEY & SON make a special feature of their "Zorbo" pneumonia jackets, put up in six sizes. A giant roll of absorbent cottonwool of remarkable evenness is worth examination, as also are the general finish and neatness of Messrs Bailey's packed goods.

THE BANISTER STREET WORKS, LTD., show bottle-filling and tube-filling machines, designed so that the rate of filling and the quantity delivered at a time can be exactly regulated. A wide range of materials can be dealt with by these convenient machines.

THE BEAUMOID CO.—The exhibit of this firm should not be missed by chemists who are seeking attractive toilet preparations. A series of twelve is offered, and a speciality is made of face-powders, vanishing-creams, dental-creams, and massage-creams.

JOHN BELL, HILLS, & LUCAS, LTD., display, in addition to their well-known proprietaries, a number of "open formula" mixtures and applications, toilet preparations, and other counter adjuncts. The attention of visitors is drawn to "San Sat," a skin cleanser that is not of the ordinary caustic soap-powder type, and is unirritating to the skin.

ARTHUR BERTON, LTD., have a large exhibit near the entrance to the Exhibition. Specimens of this company's manufactures are shown in great variety, and include surgical dressings, toilet articles, brushes, vacuum flasks, etc.

MR. S. F. BODY has an attractive stand filled with "Teucer" specialities, arranged so as to show the *rationale* of the "Teucer" system, which is further elucidated in a series of booklets. A useful list of the preparations is printed at the end of the booklets.

BROWN & SON's main exhibit is their patent automatic still for the preparation of distilled water. It is claimed

that pharmacists find it more profitable to make their own distilled water than to buy it. A popular apparatus is the still of six-pint capacity.

WM. BROWNING & CO., LTD., have a good display of paraffins, and direct special attention to the guaranteed B.P. liquid paraffin, which is of the correct viscosity for internal use. There is also a series of mineral oils for toilet paraffins, brilliantines, etc., in addition to coloured and perfumed specimens. "Semprolia" petroleum jelly is prepared for internal medication.

W. J. BUSH & CO., LTD.—This exhibit is housed in attractive showcases, which meet the eye on entering the hall. Among the multitude of perfumes is the well-known "Potter and Moore" series. A recent addition has been made in the form of a new packing for the lavender water, which consists of globular wickered bottles of various sizes. "Solidified" lavender water is another attractive preparation of the same series. Cut-glass bottles and cases for the Christmas trade are on show.

MR. W. H. CALNAN (late with Meggeson & Co., LTD.) has an exhibit consisting entirely of the products of Poiret, the well-known Paris *couturier*, for whose perfumes he has secured the agency in Great Britain. Mr. Calnan's boudoir, if we may so call it, contains a series of perfumes that for artistry of design it would be difficult to equal. Those who have not visited the Exhibition may take it for granted that the perfumes are all of the best; what is novel in them is the original, and in some cases bizarre, manner of their presentation. There is the "Mouchoir de Rosine," for instance, consisting of a bottle enclosed in a dainty silk handkerchief secured round it by an amber ring. An extensive publicity scheme has been prepared, and pharmacists will do well to note that a demand is being created for these perfumes and other toilet articles.

CAMVAL, LTD., have a seasonable display of fruit syrups, cordials, and (in three sizes) lemonade powder. Aquaperia is, of course, well to the fore, and serves to remind us of our deliverance from Teutonic domination in this department of therapeutics.

A. & E. CARRERAS are enthusiastic over the merits of their "Enolin" tooth-paste, which is undeniably an attractive line. They make an apt comment in the catalogue on the forgetfulness of British industries by members of the public when they are purchasing something—a species of amnesia which the pharmacist is, of course, quite ready to put right.

CHEMISTS' DESIGN SERVICE specialises in business-bringing blocks for chemists and opticians, and claims to make chemists' advertising original and distinctive. The design selected by a chemist is copyrighted for him in his own town, so that there is no chance of two rival chemists using the same illustration.

THOMAS CHRISTY & CO. have a varied display of a great many of their popular lines, including the "Zepto" series, "Quin Quenna," "Margery" Skin Food Soap," and "Ilexox" shaving-sticks. There are also some new toilet-preparations, and—last, but not least—"jazz wheel," a toy giving curious colour effects when set in motion.

A. F. CORBETT & CO. have a variety of stands and fittings for counter or window use that represent the last word in scientific ingenuity and refinement. Every point relating to the nature of the goods to be shown has been considered, and the result is a very attractive collection of stands, in various materials, set out with actual lines sold in the pharmacy so that visitors may be the better judge of their effectiveness. Such important, but often forgotten, matters as the balance of the shelf and its liability to plunge forward have been duly provided for, and everything, from a tooth-brush to—shall we say a by-law?—can be adequately displayed.

CUXSON, GERRARD & CO., LTD., have an extensive show of dressings, toilet requisites, and many other articles that chemists handle. They are justly proud of their plasters, for which they were Government contractors during the war; and other sections of their exhibit contain attractions so diverse as "Revelrie," the latest thing in perfumes, "Sanoid" baby-powder, and first-aid outfits in many sizes.

CYNTA MANUFACTURING CO.—This firm has a variegated display of accouchement sheets, dressings, and outfitts,

cluding the cynta towelines, knapkinettes, cot sheets, protective aprons, and knickers, elastic belts, girdles and shields.

DAISY, LTD., have a neat display of Daisy Powders and Daisyfoam Shampoo.

DE VILLESE Co., LTD., while showing a large variety of their well-known atomisers, direct special attention to the No. 49 throat spray, which produces a very fine cloud, and to the No. 16 Prescription Atomiser, which has a movable tip for the application of medicaments to the larynx and pharynx. The "Therometer," for applying wax preparations to wounds and burns by means of a spray, is also a leading feature of the display.

WILLIAM EDGE & SONS, LTD., have a corner display of "Dolly" dyes, the materials for which are by degrees becoming sufficiently plentiful. "Silmrol," which, as its name suggests, is a silver-polish, is a smart side-line shown by this enterprising company.

THE ENGLISH BRUSH MANUFACTURERS have a good display of hair, nail, shaving, and tooth brushes; they make a point of the issue of good articles at the lowest possible prices.

THE ESSONA PERFUMERY Co., LTD., have a tasteful display of their high-class perfumery and other toilet-preparations, including floral ottos of delightful delicacy. Having their own printing works, the company are in a strong position regarding labels, showcards, etc. A system of exchange of products not approved is an attractive business feature.

EVANS, GADD & Co., LTD., are showing a variety of their specialties, which include Lysol, Confellax (a palatable and effective aperient), eau-de-cologne, ung. retinol (a sedative, antipuritic and healing ointment), and Thymo Antiseptic (a non-irritant and deodorant solution for inflammatory conditions of the mucous membrane).

EUCRYL, LTD., are exhibiting in both the large hall and the small, and each display is well worth attention. The outstanding feature evident on a cursory inspection of the products is the dainty packing. This enterprising company have been adding other preparations to the "Eucryl" series; for instance, there are the "Eucryl" shampoo tablets, the novelty of which cannot fail to attract prospective customers. These tablets are packed in boxes of four. Attention is also drawn to their solid brilliantine, vanishing cream, and hair fixative. Lycryline is claimed to be a real hair-tonic, and is also one of the most recently introduced preparations. The other well-known "Eucryl" products are also in evidence.

FASSETT & JOHNSON, LTD., have an imposing corner-show of the special brands of dressings long associated with them. Sterilised "Silver Cross" bandages and pneumonia jackets are two outstanding items in a well-considered display; and the "Olympic" leg-bandage, shown *in situ* on a model, is, as most people know, a desirable substitute for the old-fashioned elastic stocking. Pharmacists who cater for surgeons' needs will be interested in a series of sterilised ligatures, gauzes, and other adjuncts of the operating-room.

FORD COOK & Co., LTD., are drawing special attention to their surgical dressings, which are all branded with the "Ingot" trade-mark. A comprehensive range of sundries, including English and Japanese hair-brushes, is on view, along with other goods, similar in nature, and suitable for the chemists' business.

FRAME FOOD Co.—This company's well-known food is displayed, and also the popular "Frame Food Jelly." This is described as a tonic food for growing children, and may be used like ordinary jam.

FREESE & MOON, LTD., manufacturing chemists, have a display of high-class toilet preparations, including the "Sevane" series. Many manicure requisites and other adjuncts of the beautifier are to be found here; and among the lines that fill a want are solid smelling-salts, put up in a stoppered bottle from which they cannot be removed by shaking—and, consequently, by any of the accidents to which smelling-salts are usually liable.

GENATOSAN, LTD., are showing a development of the Sanatogen idea in the shape of "Sanatogen chocolate," which is intended for the use of invalids when travelling,

and for children. An apparatus designated the "Quain Ozoniser" is also the property of this company, but a specimen had not arrived the day the C. & D. man called. It is claimed that the apparatus generates ozone free from nitrous gases, and the ozoniser was used during the war for the treatment of trench feet and gangrene. Sanatogen, Formamint, Genasprin and Cystopurin are also part of the exhibit.

THE GENERAL CHEMICAL AND PHARMACEUTICAL Co., LTD., have an attractive show of dental cream (in several flavours), bath crystals, bath tablets, and other toilet requisites. They draw the visitor's attention to their special discount for window-display, and to their photographic and general chemicals.

HORNICK'S MALTLED MILK.—A good show is made of this popular food for infants and invalids, which has been served at the canteens of practically every military camp in the kingdom.

HOWARDS & SONS, LTD., have a large stand of distinguished design, loaded (but not overloaded) with samples of their products. A feature is made of their "standard ether," supplied to the Army in enormous quantities during the war, and guaranteed "of an absolutely uniform standard." Packed compressed tablets have recently been put up by this house in increasing variety, and the list of them is a lengthy one, as, in a still greater degree, is that of the chemicals made at the Ilford works. Some remarkably fine specimens of *Cinchona succirubra*, ferri et quininae citras, and other old friends of the student of materia medica adorn the stand; and even boxes of seidlitz powders—in the pink of condition—are not forgotten.

INGRAM & ROYLE, LTD., have a neat corner-stand devoted to a variety of mineral waters, comprehensive enough, one would think, to satisfy the most fastidious prescriber and his patient. Many old favourites are in evidence, as well as other waters not so well known.

J. G. INGRAM & SON, LTD., claim that, at last, a rubber bottle can be obtained which does not leak from the neck. The article in question is the "Eclipse" hot-water bottle made by the company, and doubting pharmacists can see for themselves at the stand how this much-to-be-desired result is brought about. A method by which the shortage of vulcanite has been circumvented is shown in the powder-spray, made entirely of rubber and originated by a member of the company's staff. A good show of other well-known lines is made, including enemas, syringes, soothers, "Agrippa" teats, etc.

JARDOX, LTD., have an imposing list of hospitals to which they supply "Jardox," their beef food. As shown by analysts' reports, this preparation stands high among the beef extracts on the market.

H. & T. KIRBY & Co., LTD., have an exhibit which gives a good idea of the great variety of products emanating from this company. A special feature is made of aspirin tablets, but foot-bath tablets, naso-pharyngeal, dental and mouth tablets are also in prominent positions.

JULES LANG & Son have a well-arranged display of glassware, most of which, it is interesting to learn, has been manufactured in this country, in spite of obvious difficulties. Nothing could be better than the general appearance of the bottles, flasks, burettes, and so forth on view at Messrs. Lang's stand.

LYSOL, LTD., have a smart display of the products with which they are associated, including Osyl tooth-powder, Lysoline hair tonic, and Lysolan healing ointment. It is pointed out that at least 100 per cent. profit is secured on a large number of their goods to the retailer.

MENLEY & JAMES, LTD., have a display that speaks forcibly of difficulties met and overcome. Aspirin and the salicylates are the most obvious token of victory; but there are also the benzoates, the vaccines—a long list of them—and other products of high purity. "Bacterol," a non-poisonous antiseptic in five grades, attracts attention; and a series of packed tablets with a large choice of label will be welcomed by chemists who want a style unlike those of their neighbours.

CHARLES MIDGLEY, LTD., have an attraction at their stand in the form of a miniature soap-making plant, with frequent demonstrations of the art and mystery of soap-

making. They are justly proud of their long list of soaps; and their toilet adjuncts, although a side-line, are by no means negligible. Some of the hand-painted or embroidered cases of Duma's perfumes that are on view leave nothing to be desired in refinement.

MILNER'S CHEMICAL CO. have an effective display of side-lines, including "Toboggan Ginger" for making ginger-wine and "Milner Cleaner" for straw hats.

MILTON MANUFACTURERS CO., LTD., must be congratulated on attaining the century—of things that "Milton" does. To be exact, the number of uses for it mentioned in the catalogue is 101. Demonstrations of the potency and variety of function of "Milton" are being given at the company's stand each day.

THE NATIONAL CASH REGISTER CO., LTD.—Pharmacists should note the latest types of cash registers, which have the appearance of mahogany and complete seven simultaneous actions immediately a key is depressed. This company has turned its attention to business systems, and is offering a "credit system."

FRANCIS NEWBERRY & SONS, LTD., have a spacious stand well filled with their packed goods and sundries, including, among other prominent items, a manicure set with handles in mother-of-pearl. Cuticura soap—of which there is now a plentiful supply—and Newberry's Cream Embrocation also figure conspicuously in the general impression that the visitor receives.

H. & C. NEWMAN have an imposing display of Fort Reviver, the well-known non-alcoholic liqueur. Samples are available at the firm's stand.

ORELA, LTD., have transferred their factory from Paris to London. The display of toilet requisites at this stand is a particularly fine one, the packing of face-powders, etc., being very attractive. There is a large assortment of brilliantines, and synthetic oils are also in evidence. This company are pushing Thistledown face-powder, in addition to other branded lines named Delysia, Scarlet Pimpernel and Oriana powders. They specialise also in "own name" packings, and during the exhibition are making specially favourable offers in this direction.

W. T. OWBRIDGE, LTD., has a stand in charge of Mr. W. A. Turner, who is now a director of the company. The Owbridge specialities are represented by a massed display of showcards and other advertising matter.

PARKE, DAVIS & CO. have a large stand devoted to their preparations, and a giant dummy Euthynol tooth-paste tube is suspended over it—typifying the prominent feature of the exhibit. In addition to the old-established proprietaries of the firm, there are several new ones, for medical, dental, and veterinary uses, worthy of inspection. For example, there is Apothesine (a powerful local anaesthetic), Granulogen (an antiseptic combination of paraffin for the treatment of burns), and Pitidrenalin (for treatment of shock, etc.), said to be an improvement upon adrenalin alone. There are two exhibits of the firm's pepsin (spongy and powder), and it is claimed that these pepsins readily form a clear solution. A solution of ferrous iodide, intended for making a syrup that will keep, is among the many other preparations in the display.

THE CHARLES H. PHILLIPS CHEMICAL CO. concentrates on three of the staple products of the firm: Milk of Magnesia, Digestible Cocoa, and Phospho-muriate of Quinine Compound.

PRICE'S PATENT CANDLE COMPANY, LTD.—The specialities of this company are displayed to advantage, and include the well-known glycerin, toilet soaps (special lines for chemists), perfumery, and night-lights. A feature is made of Zincocream soap (containing zinc oxide, sulphur, and lanoline). Regina shaving soap and other similar preparations are also shown.

PRICHARD & CONSTANCE, LTD., have a striking display of "Amami" toilet adjuncts, which satisfy the eye with their artistic finish. The series has become an extensive one, and gives a note of refinement wherever a selection from it is shown.

HENRY C. QUELCH & CO. have one of the largest—and, perhaps, the largest—displays in this year's Exhibition. It has frontages in two "streets," and is ingeniously contrived to strike the eye with massed effects. One stand is devoted to Bourjois & Co.'s perfumery, another

to Tetlow's specialities, another to "Cutex," nail preparations, and so on. The representatives of the firm are present in force to guide visitors through this interesting group of toilet adjuncts.

QUINFOS, made by Thompson & Capper, Ltd., has a stand to itself, and chemists are invited to inquire regarding the special terms for window-displays.

RAJEEN PERFUMERY CO.—This firm offers a cheap line of concentrates, which ought to be acceptable in these days of high spirit-duty. Poudre Fine is the speciality.

REDDGRAVE, BUTLER & CO. recommend their "Paraffinum Liquidum" B.P. as a British product. Petroleum jellies, yellow and white, are also on view.

ROBARTES, LTD., are showing their branded series of "Decoltene," "Dinkie," and "Diadem" toilet preparations, which are daintily packed and well displayed.

ROYLE & CO.—Chemists will find many attractive sundries at this stall. A cheap line of tooth-brushes is in the foreground, and many styles of powder-puffs are shown, some of which appear to be unique. Manicure-paste, eyelash-cream, and other similar preparations are also on show. The firm specialises in "Trefle" face-powder and "Zarobee" toilet-cream, and issues a 40-percent glycerin pastille.

SAVORY & MOORE, LTD.—The well-known infant food is among the first products to meet the eye at this stand, but the exhibit is a representative one, including other well-known specialties of the company. "Fructolax," described as the newest laxative, is a hydrocarbon jelly agreeably flavoured with fruit. Children are said to take this preparation readily. Aphrodont is a tooth-paste introduced by the company to provide an effective cleansing agent for the mouth.

MAURICE SMITH & CO., LTD., call the attention of visitors to their "Heals" preparations, which, like their other specialties, they are prepared to advertise locally in the chemist's own way, in addition to giving special display terms.

STOREY, EVANS & CO., LTD., well known in connection with "Ucal" advertisements, are ready with schemes and suggestions for showcards, cartons, and other advertising matter to promote sales in the optical, surgical, photographic, and other branches of the pharmacist's business.

THE THERMAL SYNDICATE, LTD., show flasks, hypodermic syringes, and other goods made from "vitreosil." As pointed out in our last issue (p. 50), "vitreosil" possesses the great advantage over glass of resisting sudden variations of temperature, so that hypodermic syringes, e.g., may be sterilised by plunging them into a flame. It is supplied in transparent and opaque varieties.

THE THERMOGENE CO., LTD., have a display that indicates complete recovery from the recent trouble of short supplies. The directors, indeed, express the belief that "British pharmacists, at least, will not again have to order Thermogene in vain." An extension of plant has lately been carried out, and special display conditions are offered by the company.

UNITED CHEMISTS' ASSOCIATION, LTD., makes a bold bid for new adherents with one of the largest and most diversified of all the stands—or groups of stands. An entry in the official catalogue recalls that "the Ucal movement really started at the Chemists' Exhibition in the year 1909," and that at the present time "2,000 pharmacies are working wholly or in part on the Ucal plan." The Ucal products are tastefully labelled and displayed on stands from which a good many visitors may derive hints.

THE WEST END PHARMACY SUPPLY.—Cachets are much in evidence at this stand, and the firm undertake to print the name of customers on any quantity. Sundries such as eye-baths, jars for cold cream and other ointments, funnels in stoneware, and clinical thermometers with centigrade scale are also shown. The index of the thermometers is said to be indestructible. The back of the stand is given over to a display of hypodermic syringes, needles, etc.

THE WESTERN DENTAL MANUFACTURING CO., LTD., have some features of special interest to chemists in their exhibit. For window-displays of their popular lines a

special window-stand has been devised, on which are shown tumblers containing "Sotol" mouth-wash, etc. Those who have used this and the newer "Sotol" tooth-paste are aware that the company has brought the blending of flavours to a fine art, involving almost endless experiments. Sotoform throat-tablets are of this seductive class of medicaments, in which it is impossible to name any one flavour. Phryna-zol naso-pharyngeal tablets mark a distinct advance in popular nasal irrigation in that they form, when the directions for use are followed, an isotonic solution. Every detail in these scientific products has, in fact, been carefully thought out.

ALBERT WILLIS & ARTHUR, LTD., have a display of their speciality, the Indian perfume bick, which is stated to retain its fragrance indefinitely, and to impregnate handkerchiefs, etc., with an exquisite odour, at the same time acting as a moth preventive.

E. H. WRIGGLESWORTH, LTD., have an effective sign-post to "Extermino" vermin destroyers in a collection of dead rats in the forefront of their exhibit. These, however, the *C. & D.* man elicited, had been preserved in formalin. The series of "Extermino" products includes rat paste, beetle paste, fly catcher, and insect powder. Another special feature of the company is machine-packed goods. Epsom salts; boric acid, and the like, the chemicals being entirely untouched by hand in the process.

Among others exhibiting are CALDER'S YEAST CO., LTD., KOLYNOS, INC., MANHU FOOD CO., LTD., THE PEACE PILLOW CO., and PIESSE & LUBIN, LTD.

Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

Reports from Local Centres.

ENGLAND.

Birmingham.—The results of the election of the Pharmaceutical Committee have been issued, and the following will be included in the new Committee: Messrs. Wakefield, Francis, Poole, Buckingham, Whittock, Shakespeare, Rushton, Stringer, Cooper, and Smallwood. The first meeting is called for July 22, at which the officers will be appointed and additional members of the Committee co-opted.

Cornwall.—A meeting of the Pharmaceutical Committee was held at Truro on July 1. Mr. Cannon (Penzance) was elected Chairman, Mr. Stephens (Camborne) Vice-Chairman, Mr. Hall (Truro) Secretary, Messrs. Cannon, Gee, and Hall Joint Service Sub-Committee. The Executive Committee was re-elected. The report of the year's working and the financial statement were adopted.

London.—A meeting of the Pharmaceutical Committee was held on July 8, Mr. G. B. Barnard (Chairman) in the chair. The margin of error in pricing during January was 0.16 per cent. The Secretary reported, *inter alia*, that a firm of doctors in the Western area had made application for permission to dispense for their insured patients. The Committee, after discussion with the Pharmaceutical Service for the area, instructed the Secretary to investigate and communicate with the Insurance Committee on the matter. During April and May three chemists had resigned from, and one had been admitted to, the panel list. Particulars of the meeting of the special section dealing with alleged inadequacy of the Pharmaceutical Service in two areas of London were given. With regard to the Dentford inquest case (*C. & D.*, June 21, p. 68), it was found that the local chemists were not at fault, as the prescription was not marked "Urgent" and the patient's relatives did not attempt to procure the medicine until nearly 11 A.M. next day. It was found that the patient's death was due to perforating ulcer of the duodenum. The attention of the Committee was drawn to a paragraph which

appeared in the "Nursing Mirror and Midwife's Journal" casting a reflection upon the Pharmaceutical Service. The Secretary was instructed to send a letter to the editor asking him to withdraw the statement complained of. The following were elected to constitute the Pharmaceutical Committee for the year ending July 1920: Messrs. Abelsch, Barnard, Humphrey, Jenkin, Keall, Keith, Melhuish, Milner, Murison, Noble, Shirtliff, Skinner, Sparks, Thompson, Trick, Wing. The number of prescriptions for April was 355,924, the average cost per prescription being 7.48d. There were two complaints of alleged refusal to dispense. One was dismissed as not substantiated. In the other the chemist was censured for not ascertaining if the prescription was urgent.—The first meeting of the newly constituted Pharmaceutical Committee was held at 17 Bloomsbury Square, London, on July 15. The following officers were appointed: *Chairman*, Mr. A. J. Wing; *Vice-Chairman*, Mr. J. Humphrey; *Secretary*, Mr. G. A. Tocher. The Committee expressed their appreciation of the services rendered by Mr. G. B. Barnard during his term of office as Chairman. The Committee also accorded their thanks to Mr. G. A. Mallinson, the returning officer, for his services in the election. Messrs. G. B. Barnard, J. Keall, and A. R. Melhuish were appointed members of the Pharmaceutical Service Sub-Committee, and it was decided to hold the next meeting of the Committee on September 9. The Chairman, Vice-Chairman, and Secretary were authorised to act on behalf of the Committee until the next meeting.

Southend-on-Sea.—A meeting of the Pharmaceutical Committee, convened by Mr. G. A. Mallinson (returning officer), was held on July 8. The following officers were elected: *Chairman*, Mr. F. H. King; *Secretary*, Mr. S. F. Body. Mr. Clement W. Ridyard was nominated by the Committee as candidate for the Local Associations Executive. Mr. Cowe, the retiring Secretary, reported that no reply had been received from the Panel Committee with reference to the adoption of a *rota*.

Wolverhampton.—A meeting of the Pharmaceutical Committee was held on June 12, at which the annual report and statement of accounts were adopted and ordered for circulation. Messrs. Dunn and Trotter were appointed auditors, and an honorarium was voted to the Secretary.—The only change in the Pharmaceutical Committee is the election of the President of the Wolverhampton Chemists' Association (Mr. C. M. Warner) in place of Councillor F. A. Willcock, who retired. A meeting was held on July 18 for the election of officers.—Martyns, Ltd., have started Insurance dispensing at their Cannock Road branch. The following statistical data is given:

	Quarter ended December 1918	Quarter ended March 1919
No. of prescriptions ...	96,702	28,654
Average price of ingredients ...	4 31 <i>d.</i>	4 67 <i>d.</i>
Average dispensing fee	3 36 <i>d.</i>	3 38 <i>d.</i>
Average cost per person (insured) ...	24.33 <i>d.</i>	7.68 <i>d.</i>
	7.57 <i>d.</i>	

Mr. S. Phillips, Ph.C. (Lichfield Street, Wolverhampton), will represent the Association at the forthcoming British Pharmaceutical Conference. Three Wolverhampton chemists (Messrs. C. M. Warner, W. R. Dunn, and Trotter) attended the by-law meeting.

SCOTLAND.

Forfarshire.—At a meeting of the Insurance Committee, held on July 12, it was resolved that delegates to the forthcoming annual meeting of Insurance Committees at Dumfries should submit a motion for the elimination of Sanatorium Benefit from the National Health Insurance scheme and for the substitution of an equivalent benefit. In a discussion on the proposal to raise the income limit, it was stated that doctors had not helped to popularise the Insurance Act, and a suggestion was made that, as they had benefited from the Act, they ought to help to make it more popular.

Association Affairs.

Dublin.—A committee-meeting of the Dublin Retail Drug Association was held on July 9, Mr. John Smith (President) in the chair. The following were also present: Messrs. R. White, Robert Nellon, G. A. McLean Lee, Victor E. Hanna, Robert J. Savage, D. M. Watson, Dr. J. A. Walsh, Dr. J. C. McWalter, and Robert J. Kidney (Secretary). The Treasurer's report was approved, and several accounts passed for payment. Correspondence was also dealt with, and the following new members were elected: The Cork Chemical & Drug Co., Ltd., Mr. John O. Atkinson, Rathdrum; Mr. H. D. O'Brien, Fermoy; and Mr. J. D. O'Connell, Mallow. With reference to the schedule of retail prices, agreed to by the chemists of Cork, the Committee trusts that it is provisional only, and hopes that at an early date the scale set out in the price-lists of this Association will be adopted.

Ipswich.—A departure from the customary indoor assembly was instituted when the Ipswich Chemists' Association, on July 9, held a meeting in the Secretary's garden, the President (Mr. G. N. Edwards) in the chair. Several new members were enrolled. Mr. Smalley (President of the East Anglia Federation of Pharmaceutical Associations) addressed the meeting on *Industrial Councils and the Position of the Local Associations Executive Committee*. Mr. Smalley was afterwards nominated candidate for the central area. With regard to the Association's price-list, a suggestion was made that a rate for photographic developing and printing be fixed. The unsatisfactory position as regards Jeyes' Fluid was discussed, and it was decided to ask the East Anglia Federation to deal with the matter. The by-law provided the subject of conversation while the members had tea.

London Co.—The first meeting of the newly-appointed Executive Committee of the London County Pharmaceutical Association was held at 17 Bloomsbury Square, London, on July 15. The Secretary reported that Messrs. J. Hearle and C. W. Matthews were appointed to the Executive Committee by the North London Pharmacists' Association in place of Messrs. J. C. Carter and H. Wolff. The following officers were then elected: President, Mr. G. B. Barnard; Vice-President, Mr. A. J. Wing; Hon. Secretary, Mr. G. A. Tocher. The retiring President (Mr. John Keall) was accorded a vote of thanks, and the Committee recorded their appreciation of the services rendered by the Secretary (Mr. G. A. Tocher). The following members were appointed to constitute the Organisation and Trade Sub-Committee: Messrs. Keith, Melhuish, Milner, Nobel, Murison, Keall, Jenkin, Humphrey, Thompson, and Tocher. After slight amendment the standing orders of the Committee were confirmed. The Secretary submitted statement of accounts for the year ended June 1919. Levies from the district Associations amounted to 39*l.* 11*s.* and the balance was 7*l.* 17*s.* 6*d.* The question of proportionate representation on the County Executive was referred to the Organisation Sub-Committee. The report of the Pharmaceutical Insurance Sub-Committee was received. The Secretary was requested to write to the Local Associations Executive concerning the failure of certain firms to supply medicine bottles. A discussion took place on the price of aspirin tablets, and members expressed the opinion that a uniform retail price of 1*s.* for bottles of 25 should be maintained throughout the country. The next meeting of the Executive Committee will be held on September 16.

Sheffield.—The first annual general meeting of the Sheffield Pharmaceutical Students' Association was held recently, with Mr. Israel Best (President) in the chair. In presenting his report, the Chairman said that one of the chief objects of the Society had been achieved—namely, the securing of a proper and suitable pharmacy course at the Sheffield University. Mr. Best also said that they were the first to think of the formation of a Pharmaceutical Students' Union of Great Britain, which he hoped would be of benefit to pharmaceutical students.

The Treasurer, Mr. J. W. Bell, presented the balance sheet, which showed a satisfactory balance. The following officers were elected: President, Mr. I. Best; Vice-President, Miss K. Newsholme; Treasurer, Mr. J. W. Bell; Hon. Secretary, Mr. L. A. Chatterton; Assistant Secretary, Mr. G. Clarke; Auditors, Messrs. R. Loy and W. Duckworth; Council, Messrs. J. E. Billington and C. Waterhouse, and Misses E. K. Whittington, E. Morris, K. Owens, and M. C. Laycock.

Southampton.—The Southampton Pharmaceutical Association have decided to form an association of employers (not a section) with separate funds. A strong feeling was shown at a recent meeting to do nothing that would break up the old Association, its constitution being such that it provides a neutral meeting ground for employers and employees. By its influence Southampton has its minimum retail price-list for drugs and dressings corrected by a committee monthly, and there is an arrangement with all the methylated-spirit licence holders, including others besides chemists, for a minimum price, emanating from the same source. (An account of the presentation to Mr. F. B. Wride is given on p. 66.)

Southend-on-Sea.—A meeting of the Southend Association of Pharmacists was held on July 8, Mr. F. H. King (Vice-President) in the chair. With regard to the formation of an employers' section in the Association, it was resolved that the employers should form an independent body without participating in the funds of the Association. The following officers were elected: President, Mr. R. H. Shields; Vice-President, Mr. F. H. King; Treasurer, Mr. W. T. Hill; Secretary, Mr. S. F. Body; Executive Committee: Messrs. Heywood, Holloway, Cowe, Hamilton, Carpenter, and Wilson; Messrs. England and Body were nominated as candidates for the Local Associations Executive election. The meeting considered a circular from the Society, which alleged that difficulties were involved by the proposal emanating from the Association as to branches of the Society. The Secretary was asked to draft a report, embodying the opinions of the members, for submission to the Secretary of the Society, in accordance with his invitation. Messrs. Heywood, King, and Body, who were present at the meeting in the Memorial Hall on July 2, reported on the proceedings. It was resolved to give unreserved support to the by-law. The report of the Council-meeting was briefly reviewed.

Truro.—The meetings of the Cornish Pharmacists' Association, interrupted by the war, were resumed on July 1. Mr. Roberts (Truro) was elected President, Mr. Hocking (Falmouth) Vice-President, and Mr. Hall (Truro) Secretary. The question of an Industrial Council for Pharmacy was discussed. It was decided to alter the rules of the Association so that it could form the Employers' Section of the proposed Industrial Council and members of the Pharmaceutical Committee could constitute the Executive. Regarding the proposed by-law, the opinion was freely expressed that the Council should refer the matter to a vote of all members of the Society, and that full information should be sent to each association. The Secretary stated that he had written to the Secretary of the Society asking for the particulars that could not be published, but only an acknowledgment of the letter had been received. It was resolved to send a telegram protesting against the draft by-law. The Secretary was instructed to see the Clerk of the Insurance Committee with reference to the payment of accounts on a definite date.

ALKALI WORKS IN WESTERN AUSTRALIA.—Investigations of the resources of Western Australia have been recently carried out in that State on behalf of Brunner, Mond & Co. Ltd., with a view to establishing alkali works in Western Australia.

CYPRIAN ESSENTIAL OILS.—The war with Bulgaria has led to a considerable development in rose cultivation in Cyprus, and an experimental distillation of otto of rose was carried out at Miliokouri. In addition to the distillation of origanum oil, as in former years, essential oils of white thyme, sage, and wild lavender have also been produced.

Proprietary Articles Trade Association.

THE twenty-third annual meeting of the Proprietary Articles Trade Association was held on July 10 at the Holborn Restaurant, London, W.C. The chair was occupied by Mr. John Keall, the President, and supporting him were the following members of the Council : Mr. J. G. Atkinson, Mr. Geo. Barclay (Barclay & Sons, Ltd.), Mr. W. C. Birks (Raimes & Co.), Mr. J. B. Francis (Wrexham), Mr. R. Feaver Clarke (Gravesend), Mr. A. R. Keith (Poplar), Mr. Wm. Lane (Woolley, Sons & Co., Ltd.), Mr. A. R. Lewis (G. Whelpton & Son, Ltd.), Mr. J. McCaig (Evans Sons Lescher & Wehb, Ltd.), Mr. J. Milner (Greenwich), Mr. F. R. L. Newbery, Mr. S. N. Pickard (Ossett), Mr. E. Pickering (F. Newbery & Sons, Ltd.), Mr. G. P. Pond, Mr. F. W. Powell (Thomas Powell, Ltd.), Mr. H. M. Read (Hirst, Brooke & Hirst, Ltd.), Mr. P. F. Rowsell, Mr. F. J. Smith, Mr. J. A. South (John Steedman & Co.), Mr. A. T. Webb (May, Roberts & Co., Ltd.), and Mr. Page Woodcock. There was a large attendance of members.

The minutes of the last annual meeting were read and approved.

The twenty-third annual report was taken as read (*C. & D.*, June 28, p. 66), and the PRESIDENT, in proposing its adoption, expressed gratification with the result of the work carried on by the Propaganda Committee, and expressed the hope that their activities would be continued.

Mr. P. F. ROWSELL, in seconding, expressed surprise that so many retailers who reaped enormous benefits from the work of the Association still remained outside its membership. Special efforts, he thought, should be directed to roping in these chemists.

Mr. ALFRED HIGGS (Kingston) agreed with Mr. Rowsell's observations, and pointed out that it was a matter for regret that so many retail chemists throughout the country were content to take all the profits the P.A.T.A. secured for them without contributing a penny towards the expenses incurred. Referring to those manufacturers who refuse to place their goods on the P.A.T.A. list, and whose goods are being sold to the public at little or no profit to the retailer, Mr. Higgs expressed the view that if the wholesalers would take the lead and refuse to supply unremunerative lines to their customers, their action would be strongly supported by the rank and file of the trade. The recent recommendations of the Council to local Pharmaceutical Associations relative to patent-medicine stamp duties were, in his opinion, unwise, for the reason that once they began to stir up the Somerset House authorities all sorts of views of the question might be raised. Some of those views would, in his opinion, be entirely antagonistic to the interests of chemists, and for that reason he counselled strict observance of the ancient maxim to "let sleeping dogs lie." He strongly deprecated the practice of some chemists of breaking bulk, which he contended was illegal and which the Inland Revenue Commissioners had no power to authorise.

Mr. HUGO WOLFF, in congratulating the Council on the excellent report, said that the action which had been taken with regard to firms whose names were on the "Stop List" was the best testimonial that could be given as to the efficiency of the work of the P.A.T.A.

Mr. P. C. EDGAR (Deal) pointed out, with reference to the patent-medicine stamp duties, that as a result of the great increase of the price of all materials manufacturers are in a most difficult position. They had difficulty in avoiding loss on the sale of their products, because the basis on which the duties are at present fixed prevents them raising the price of an article to the public in proportion to the increased price of the ingredients used in its manufacture. In his opinion, representations should be made to the authorities with a view to some alteration of the duties being secured.

Mr. HIGGS agreed that manufacturers do experience difficulties in the way suggested by Mr. Edgar, but suggested that these might in many instances be obviated if manufacturers place smaller articles on the market.

Mr. EDGAR contended that such a course as the one suggested by Mr. Higgs would not be in the interests of

the public, nor was it one which manufacturers could conveniently follow.

Mr. HUGO WOLFF mentioned a wholesale house which is charging higher prices to the retailers than the minimum wholesale prices published in the Protected List. He added that he had taken up the point with the firm, and had been informed by them that the Council of the P.A.T.A. had no control over the matter. Was the practice followed by the firm in question not contrary to the rules of the Association?

The SECRETARY (Sir William S. Glyn-Jones), replying to the various points raised in the discussion, stated that the question of the patent-medicine stamp duties had engaged the attention of the Council at their meeting held in an earlier part of the day. It had been brought before them in consequence of the answer recently given by the Chancellor of the Exchequer to questions which had been raised in the House. Mr. Higgs, as well as Mr. Edgar and others, would be gratified to learn that a policy had been decided upon which indicated a complete change of front on the part of the Inland Revenue authorities. At the same time, it was well to point out that the new Ministry of Health was contemplating some changes so far as patent medicines are concerned; consequently he regarded it as unwise just at that juncture to continue the agitation for a revision of the stamp duties. A question had been raised regarding changing the day of the week on which the annual meeting is held. He had to repeat the assurance he had given on previous occasions, that the Council fixed a day that was most likely to suit the convenience of the majority of the members. If it could be shown that there would be a larger attendance on the Wednesday, the Council would no doubt be prepared to make the change. For the first time in the history of the organisation an invitation had been received from a provincial Pharmacists' Association that the annual meeting of the P.A.T.A. should be occasionally held in one of the large provincial centres. This would be considered and decided upon by the Council before the next annual meeting. Regarding the question raised by Mr. Wolff, the Secretary pointed out that the P.A.T.A. only fixed minimum prices below which proprietary articles were not to be sold either wholesale or retail. The same rule applied to wholesalers as to retailers, that if they could obtain from their customers a higher price than the minimum no objection could be raised. At the same time, his own feeling was that it was not a wise policy on the part of members of either section to charge prices in excess of those stated in the Protected List. Whilst fully appreciating the difficulties experienced by wholesalers consequent on having to pay more for labour and increased charges in other respects, especially so far as heavy or breakable articles are concerned, he felt sure that as a result of the ventilation which had been given to the question the wholesale section would exercise care that the minimum wholesale prices were not exceeded unless in cases of dire necessity. He pointed out that the wholesale firm mentioned by Mr. Wolff could not be a very important one, seeing they were not members of the P.A.T.A. Practically every wholesale house of any size is now a member of the Wholesale Section.

Mr. F. J. SMITH thought that when retailers ordered something for a customer which the wholesaler had specially to procure, it was not unreasonable that a higher charge should be made. Retailers seldom demurred when this was explained to them.

The annual report and statement of accounts were then adopted.

A vote of thanks to the President concluded the proceedings.

WATER from a well at Bulphan, Essex, has been found to contain 475 gr. of magnesium sulphate per gallon.

A LONDON SPICE MARKET report states that "there is more demand for the finest qualities of Ground White Pepper which are made from decorticating Black Pepper, and owing to the difficulty of disposing of the husks, which cannot be used in this country in any quantity, higher prices have to be realised for the white portion of the corn." Housewives tell us the substance supplied by the grocer nowadays is always "dark and gritty."

Chemists' Defence Association (Ltd.).

THE eighteenth annual meeting of the Chemists' Defence Association, Ltd., was held on July 10 at the Holborn Restaurant, London, following on that of the Proprietary Articles Trade Association. Mr. P. F. Rowsell, Chairman of Directors, presided.

THE ANNUAL REPORT.

Following on the reading and approval of the minutes of the last annual meeting, the annual report and statement of accounts were submitted. The report showed that since the publication of the last report 142 new members had joined, the total membership in April numbering 5,247. Full advantage had been taken of the privilege of legal advice. Many business problems of a legal character had been under review by the Association's solicitors, and opinions and advice forwarded to a large number of members. Claims for damages, although heavier than in the previous year—which was the lightest for a long time—were by no means high. Among those dealt with was that of a member who, through no fault of his own, sold a powerful poison in place of pure barium sulphate. A patient took a dose of the powder, under medical directions, and died. His dependants claimed damages, and before they were satisfied the mistake had cost the member over 500*l.* Unfortunately for him, he was covered in the C.D.A. only up to 200*l.*, and consequently he had to pay the difference. In view of this and not a few similar occurrences, the Directors earnestly recommended members to consider the advisability of getting covered on the higher scale. Some of the cases dealt with by the Directors were of a frivolous and vexatious character. These had been resisted and no more heard of them. It was a noteworthy fact that errors arising from the accidental sale of carbolic acid and camphorated oil instead of other medicines kept on happening from time to time, and the Directors strongly urged that the attention of employés be specially drawn to that fact, with a view to decreasing the number of such accidents in the future. A considerable number of police court cases had been defended during the past year. Those undertaken by public authorities included such articles as cream of tartar, tincture of iodine, paregoric, and sweet nitre. Other prosecutions involved cases under the Cocaine and Opium Order, Shop Closing, Medicine Stamp Acts, and the Pharmacy Acts. The Directors again urged members to avail themselves of the facilities offered them of having samples of B.P. articles analysed, on the principle that prevention is better than cure. They expressed surprise that a large number of members do not avail themselves of the undoubtedly privilege of security combined with reduced premiums offered them in connection with the Association's Employers' Liability, Workmen's Compensation Act, and fire and plate-glass insurances. They recommended the taking up of policies covering all the expenses likely to arise in cases of illness and accidents under the Workmen's Compensation Act, and pointed out that ordinary policies, designed to meet the bare requirements of the Act, fall considerably short of this in many cases. They proposed that 20,000*l.* be substituted for 10,000*l.* in connection with the reserve fund. The balance-sheet was again satisfactory, the excess of income over expenditure being the highest on record. The Association's profits since the beginning of the war had been invested in Government stock. The income, including 2,754*l.* 3*s.* from subscriptions, amounted to 3,328*l.* 14*s.* 9*d.*, and the expenditure to 1,804*l.* 11*s.* 4*d.*, leaving a balance of 1,524*l.* 3*s.* 5*d.* to be carried to the balance-sheet, which showed assets amounting in the aggregate to 12,728*l.* 16*s.* 8*d.*

The CHAIRMAN, in moving the adoption of the annual report, referred to the Birmingham camphorated-oil case, and read a letter from the Birmingham Pharmaceutical Association congratulating the C.D.A. on the very effective defence they had set up in the case.

Mr. JOHN KEALL, seconding the adoption of the report, said he looked forward to the time when the Association would have the accumulated reserve of 20,000*l.* for which

they set out some years ago. When they had acquired this the Directors would be enabled greatly to extend the benefits enjoyed by members.

Mr. C. RUNDLE thought that 20,000*l.* should not be made the minimum for the reserve fund.

The SECRETARY (Mr. Johnson) explained that the primary object in setting out for a reserve fund of 20,000*l.* was to comply with the condition laid down by the Government that a reserve fund of that kind was essential before the Association would be permitted to effect certain kinds of insurances.

The report was then adopted.

ALTERATION OF RULES.

The meeting then took up consideration of certain revisions of the rules recommended by the Directors (see *C. & D.*, June 28, p. 66, and July 5, p. 64). These provided for an increased number of benefits, including (1) indemnity in veterinary transactions; (2) indemnity against liability for compensation for damage to, or destruction of, specified articles belonging to a customer caused by a member or any person in his employment in dispensing any medicine or selling any article usually sold by chemists; (3) indemnity against liability for compensation for bodily injury caused to any person by an error in testing the sight of a customer, or in selling spectacles or eyeglasses; (4) affording a member legal defence when summoned for a debt which, in the opinion of the Association's officers and solicitor, was not due, and when a defence would be in the general interest of the members; (5) assistance in taking legal proceedings for breach of contract in relation to goods sold to a member for dispensing or sale in his business; and (6) assistance in taking legal proceedings against a carrier for damage to, or loss or destruction of, goods belonging to or consigned by a member. The revised rules also provided for the annual subscription being increased from 10*s.* to 15*s.* to cover all the previous and the proposed new benefits.

The CHAIRMAN, in moving the adoption of the new rules, pointed out that the veterinary benefit, for which an additional subscription of 7*s.* 6*d.* was previously payable, is now included in the proposed new subscription. Mr. JOHN KEALL seconded.

Mr. C. H. KIRBY (solicitor) explained at considerable length the benefits which members would enjoy under the rules as proposed to be revised, and stated that these had been arranged as a result of eighteen years' experience of the troubles and trials which the retail chemist is in the habit of meeting in his business. He referred to the fact that in the past chemists had been victimised by firms and companies pushing goods on them which were neither ordered nor required, and added that the new rules would provide for the defence of any actions which might be brought against members by such concerns. Many other actions and cases previously outside the scope of the Association's benefits would now be included in them. With reference to claims for damage in respect to goods damaged or lost in course of transit, it was not to be considered that every case would be considered as being in the general interests of the members, or that the Association would support members in all cases they might raise against carriers; but others would unquestionably arise involving these interests, and it was important that the Association should take up the action rather than that the member should take it up on his own account without the backing of the Association. Altogether it seemed to him that the benefits which the new rules would confer upon the members would greatly exceed in value the proportionate increase in the subscription for the former benefits.

Mr. E. GREATREX (Wandsworth) submitted that, in view of the fact that there was an excess of 1,500*l.* of income over expenditure last year, the Association could continue to give the previous benefits and the proposed new ones without any increase in the amount of the annual subscription.

The CHAIRMAN said he felt quite sure the Directors could not for one moment advise the members to adopt all the new benefits and at the same time to allow the subscription to remain at the old rate. Their claims in

the past had been very light, but it was quite conceivable that, allowing the subscription to remain at the old rate and giving the proposed new benefits, some case might arise involving an expenditure which would wreck the finances of the Association.

Mr. PICKARD expressed his conviction that there is no other defence association in existence that gave anything like the benefits which the C.D.A. does for such a small amount as was proposed.

The CHAIRMAN said that he desired it to be clearly understood that the Directors made full inquiries before submitting the recommendations they did. Knowing what was charged by insurance companies, he did not hesitate to say that chemists could not obtain from the companies, for four times the amount charged them for subscription, the benefits which the C.D.A. offered.

After further discussion the revised rules were adopted. Mr. KEITH proposed the re-election of the Directors.

Mr. RUNDLE, in seconding, proposed a rider to the proposition that in future each Director should be allowed a fee of two guineas, instead of one guinea as formerly, for each meeting he attended.

Mr. KEITH agreed to the addition to his motion, and on being put to the meeting the re-election of the Directors, together with the increase of their fee, was unanimously agreed to.

Votes of thanks concluded the meeting.

The Chairman has since informed us that the new rules come in force at once, and that the unexpired portion of the old Veterinary Section subscriptions would be refunded, or credited to those who joined that Section.

Summer Outings.

P. D. & Co.'s Motor Drive.

Members of the Hornslow laboratories staff of Parke, Davis & Co. set out by motor char-à-banc on an enjoyable outing to Maidenhead on July 12. After a stop for lunch at the Swan Hotel, Staines, Maidenhead was reached at 3.45 p.m. Tea was provided at the White Horse Hotel, and the party was then entertained during the evening by a number of its members to a pre-arranged programme of music, etc.

A Canal Trip.

The annual outing of the Wolverhampton Chemists' Association, revived after being suspended since 1914, took place in ideal weather on June 26, and resolved itself into a canal journey to Brewood (about seven miles from Wolverhampton). The local pharmacist (Mr. Ellison), with a small company, met the party on arrival. At the "Lion" a substantial tea was enjoyed, after which the Secretary called on Mr. Dunn, who sprang a surprise on Mr. and Mrs. Harold L. Warner (both chemists and druggists) by presenting them with a tea-set as a wedding gift from the local chemists. The President (Mr. C. M. Warner) was then allowed to resume his office, and said how completely he was surprised at the present to his brother. Between forty and fifty members and friends were present at the outing.

Botanical Excursion.

Another botanical excursion, arranged by the Edinburgh Chemists' Assistants' and Apprentices' Association, took place on July 9, when about sixty members and friends travelled from Edinburgh, *via* Forth Bridge, to Kinghorn, where they were met by Mr. Thomas Wilson, Ph.C. (Burntisland), and other local pharmacists. Under the leadership of Mr. Wilson, assisted by Mr. Strachan, a local botanist, the party engaged in field work along the shore and the railway embankment, returning to the highway at Kinghorn Ness, where the monument to Alexander III. stands. The company walked back to Burntisland, where, at the ancient Rossend Castle, dating back to 1382, they enjoyed a sumptuous tea provided by the Burntisland pharmacists. The company was welcomed by Baillie Bisset, pharmacist,

Burntisland, and, on behalf of the Association and the pharmacy students and visitors, Messrs. J. Tait, Ph.C., William Duncan, Ph.C., and J. Lothian, Ph.C., expressed thanks to Messrs. Bisset, Gilmour, and Wilson and the ladies. After tea a group photograph was taken and the company returned to Edinburgh by train.—The



GROUP TAKEN AT BURNTISLAND.

summer meeting was held in the Pharmaceutical Society's House, 36 York Place, Edinburgh, on July 11, Mr. Henry Stout, Ph.C., in the chair. With a large collection of local plants, including those from the Burntisland excursion, a consignment sent by Miss Boag, chemist and druggist, from St. Boswells district, and typical medicinal plants from Mr. Lothian's garden, Mr. J. Rutherford Hill, Ph.C., gave a demonstration. A vote of thanks was awarded to Mr. Hill.

Southampton Pharmacists' Ramble.

An enjoyable outing of the members of the Southampton Pharmacists' Association, wives, and friends was held on July 9, when a party of fifty went on a ramble through the Forest to the kennels, where the New Forest hounds were inspected. The party then made their way to the Stag Hotel, Lyndhurst, where they were received by the President and Mrs. Jewell, who had invited the members to be their guests. After tea the President said he had an interesting ceremony to perform—the presentation of



PRESENTATION TO F. B. WRIDE.

Back row (left to right)—Messrs. H. W. Pratt, H. R. Hussey, H. Ferryman, W. Martin, W. J. Fisk, and W. A. Clark. Centre—Messrs. F. B. Wride and H. Jewell.

a testimonial to the Secretary (Mr. F. B. Wride), who had rendered special service in connection with the Military Service Acts. The presentation consisted of a silver salver suitably engraved, a pair of silver candlesticks, a silver engraved matchbox, and an Onoto pen. Mr. Wride having returned suitable thanks, the company adjourned to the garden, where a number of groups were taken.

The party motored to Lyndhurst Road Station, arriving at Southampton about 9 p.m. after a successful outing in splendid weather.

Trade Report.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities.

42 Cannon Street, E.C. 4, July 17, 3 p.m.

THERE has been an improvement in business in the Mincing Lane produce markets this week in view of the raising of the blockade and the possibility of resuming trade with the Central Powers. The bulk of the business in produce for these countries will be done as usual by firms of foreign origin, but the chief difficulty at the moment is to arrange payment for the goods. British firms, on the other hand, show a natural hesitation to resume business relations, and display less eagerness. Changes in values include an advance in menthol and Japanese mint oil, the latter showing a brisk demand. Refined camphor is quiet; Japanese wax is firm and dearer; star anise oil, after a quiet period, is now firm, and the same applies to clove oil, the spice having advanced 1d. Senega is a trifle easier on the spot, but America continues very "bullish" in regard to the new crop. As a fact, there seems little hope of a substantial reduction in any of the leading American barks, herbs, and roots which find an outlet here. Mandrake is held for higher prices on spot. Turkey opium is weak and lower, buying interests bearing the market. Natural calumba is easier. Castor oil is firmer. Other changes include a further advance of 1d. in mercury, and mercurials may follow by 3d. per lb. The sudden "holding up" of the importation of fine chemicals by the Board of Trade continues to be severely criticised by importers and dealers, and, as is only natural in the circumstances, the price of many leading imported synthetics continue to advance, as holders have been refused permission to import, and we have heard of products like phenazone, phenacetin, phenolphthalein, resorcin, vanillin, etc., being held up indefinitely. Holders therefore feel justified in asking more money for what they actually possess, and as supplies gradually dwindle we may look for further advances. Among the products which have been marked up are acetanilide, benzoic acid, formaldehyde, hexamine, methyl salicylate, phenacetin, milk-sugar, and vanillin.

Higher	Firmer	Easier	Lower
Clove oil	Arsenic	Caffeine	Opium
Gloves	Bromides	Calumba	Shelac
Formaldehyde	Canary-seed	Cinnamon-leaf	
Glucose	Castor oil	oil	
Hemp-seed	Coconut oil		
Menthol	Hexamine	Creosote carb.	
Milk-sugar	Methyl	Farina	
Mint oil (J.P.)	salicylate	Guaiaol carb.	
Podophyllum-root		Senega	
Quicksilver			
Turpentine			
Vanillin			
Wood oil (Ch.)			

ACETANILIDE is dearer, crystals offering at 2s. 6d. and powdered at 2s. 2d. per lb.

AGAR-AGAR is steady, with spot sellers of No. 1 Kobe strip at 2s. 11d. per lb. on the spot.

ALBUMEN is steady, with Chinese egg offering at 5s. 1½d. per lb. on the spot; afloat and August-October shipment at 5s. c.i.f.

AMIDOPYRIN is quoted at from 55s. to 60s. per lb., as to seller.

ANISE is quiet at 77s. 6d. per cwt. for Russian and 80s. for Spanish.

ANISE OIL, STAR, is firm, with sales of "Red Ship" brand at 4s. 10½d. per lb. on the spot; to arrive 4s. 9d. c.i.f. is quoted.

ANTIMONY.—It is rumoured that the price of English may be reduced from the current rate of 45s., while there is

increased competition in supplies from the Far East and France. The output of Chinese is very limited at present, but French smelters are gradually widening their operations. Chinese crude remains scarce, and the terms mentioned are close on the value of foreign regulus, and practically prohibitive.

APRICOT-KERNELS are dearer at 57s. 6d. per cwt. c.i.f. terms for July-September shipment, which has been paid.

ARSENIC.—The tendency is still upward, with a steady trade demand, and apparently very little is offering at the moment. This has certainly induced more inclination on the part of buyers to take in stock against future needs owing to the impression that prices may advance further. Quotations range from 40s. to 42s. delivered London for best Cornish powder. Outside competition for the time being is practically negligible.

ASPIRIN is unchanged at 4s. 6d. per lb., but for small lots up to 5s. is being paid.

BALSAM CANADA is quoted at 7s. 6d. per lb. on the spot.

BELLADONNA EXTRACT.—New English is quoted by the makers at from 7s. 6d. to 8s. per lb.

BELLADONNA-ROOT.—English testing 0.45 per cent. is offered at 2s. 9d. per lb. net and English belladonna-leaves at 2s. 4d. per lb. net.

BERGAMOT OIL is steady at 18s. per lb. for 38 to 39 per cent. esters on the spot.

BROMIDES.—Fair sized quantities of the three leading salts have been received, and in view of the uncertainty which exists as to obtaining licences for further supplies there is a better undertone. Potash crystal is quoted at 3s., granular at 2s. 9d., soda at 2s. 6d., and ammon. at 2s. 9d.

CAFFINE.—Pure crystals are offered by importers at the easier rate of 29s. per lb. on the spot.

CALUMBA is a trifle easier for natural sorts, which offer at 85s. per cwt.

CAMPHOR OIL.—White essential Japanese is quoted at 115s. per cwt. on the spot and at 120s. c.i.f. terms to arrive.

CAMPHOR (REFINED) is steady, with sellers of Japanese 2½-lb. slabs at 13s. 6d. per lb. on the spot, afloat at 13s., and August delivery 13s. 6d. c.i.f.; ¼-oz. tablets seem non-existent; English flowers are 14s. 9d.

CANANGA OIL.—Java to arrive is offered at 27s. per lb. c.i.f.

CANARY-SEED is firmer at 180s. per quarter for good Morocco.

CARAWAY-SEED is unchanged at 115s. per cwt. for Dutch and 90s. nominal for Morocco.

CARDAMOMS.—In our arrivals section we note that consignments aggregating over a thousand cases have been received.

CASSIA OIL is quoted at 7s. 3d. per lb. for 80 to 85 per cent. c.a. on the spot and at 7s. to arrive; while 70 to 75 per cent. is 7s. per lb. in either position.

CASTOR OIL.—The prices quoted by the English makers now include packages, and are as follows: Pharmaceutical, 102s.; first pressing, 99s.; second pressing, 97s. per ton net ex works, Hull, barrels included. Finest medicinal water-white Italian in cases is 205s. per cwt. net c.i.f. to come forward.

CINNAMON OIL is dull and easier, with sellers of Ceylon leaf at from 7½d. to 8d. per oz.

CITRIC ACID is steady at 4s. 4d. per lb. on the spot.

CITRONELLA OIL.—Ceylon is quoted at 2s. per lb. on the spot and Java at 2s. 11d., or 2s. 7½d. c.i.f. to arrive.

CIVET is dearer, pure being offered at 12s. per oz.

CLOVES have advanced 1½d. per lb., with spot sales of fair Zanzibar at up to 1s. 5½d. per lb. and buyers.

COLCHICUM CORM is quoted at 4s. 5d. per lb.

CORIANDER-SEED is in slow demand, with sales of retail lots at 30s. per cwt. for good Morocco.

CREOSOTE CARBONATE is offered at the easier rate of 42s. 6d. per lb. on the spot.

COUMARIN is higher than when last quoted, importers offering at 37s. 6d. per lb. on the spot and 35s. to arrive.

CREAM OF TARTAR is quiet at from 235s. to 240s. per cwt. for 99 to 100 per cent. powder on the spot.

CUMIN-SEED is firm, with further business at 50s. per cwt. for good sifted Morocco.

DILL-SEED is dull, with sellers at 29s. to 30s. per cwt. for ordinary East Indian.

ECALYPTOL is offered at 5s. 9d. per lb. on the spot.

FARINA is easier, with No. 1 Japanese offering on the spot at 50s. 6d. per cwt. and June-August shipment at 48s. c.i.f.

FENNEL-SEED is quoted 36s. to 38s. per cwt. without any business reported.

FENUGREEK-SEED is not inquired for; the price remains nominal at about 21s. 6d. per cwt.

FORMALDEHYDE is dearer at from 130s. to 135s. per cwt. net on spot for 40 per cent., according to quantity.

GENTIAN.—Fair quantities have arrived, and prices are slightly easier, good being obtainable at 57s. 6d. per cwt. on the spot.

GERANIUM OIL.—Bourbon is quoted at 25s. 6d. to 26s. 6d. per lb. on the spot, as to holder, and at 25s. on c.i.f. terms; French is 32s. 6d.

GINGERGRASS OIL is offered at 11s. 6d. per lb. on the spot and at 13s. e.i.f.

GLUCOSE is dearer at 55s. per cwt., duty paid, for American water-white liquid on the spot.

GUAIACOL CARBONATE.—Sales have been made at the easier rate of 30s. per lb. on the spot. Liquid to arrive is quoted at 55s., the spot value being 60s.

GUM ACACIA is firm, with half-hard Sudan sorts offering at 72s. 6d. per cwt.

HELIOTROPIUM is quoted at 21s. per lb. on the spot.

HEMP-SEED has been sold freely to arrive, and the price has advanced about 4s.

HENBANE EXT.—New English is quoted by the makers at from 11s. to 11s. 6d. per lb.

HEN-YOLK is steady, with Chinese *liquid* offering at 220s. per cwt. on the spot; afloat and August-October shipment at 200s. per cwt. e.i.f. *Dried whole* on the spot is 3s. 3d. per lb. and afloat 3s. c.i.f. *Dried yolk* has been sold at 2s. 4d., and for July-September shipment 2s. 3d. e.i.f. is quoted.

HEXAMINE is firmer at from 5s. 6d. to 6s. per lb. net, as to quantity, and to come forward 4s. 9d. e.i.f. is quoted.

HONEY keeps in fair demand at steady prices. Fair-sized quantities have arrived from Australia and New Zealand. London exports include 647 cwt. to Norway and Sweden.

LEMONGRASS OIL.—Cochin on the spot is quoted at 4½d. per oz. and at 5d. on c.i.f. terms.

LEMON OIL is in fair demand at from 4s. 9d. to 4s. 10d. per lb. on the spot, and to arrive from 4s. 6d. to 4s. 8d. e.i.f. is quoted. A Sicilian advice, dated July 11, states that the position is not a normal one. The last crop was fairly good, stocks are plentiful, and the demand is not particularly brisk. At the same time, prices are keeping up; they even have a strong tendency, and during the last week an advance of some importance has taken place. A few reasons may be given for this abnormal state of affairs. The producers are not in need to sell their goods, as they have made substantial profits during the war; and again, the cost of production owing to the enormously increased price of living and labour stands very little below the present selling prices. Speculation in order to drive prices up never relents, and holders are under the impression that the imminent reopening of the German and Austrian markets must have a considerable influence on the market. Higher prices during the last few days have been paid for speculative purchases made by the producers themselves. Another disturbing element is the continual fluctuations in the rate of foreign exchange, which have lately been sudden and important. Within the last week, for instance, there were fluctuations of 10 per cent.

LINSEED OIL.—There seems no yielding in prices yet awhile, the stringency of seed being exceedingly pronounced under high freight costs. Seed is wanted badly in all Continental ports where crushing is reviving, and Holland is still clamouring for the oil product, of which, however, but little is now obtainable for export under present crucial conditions of scarcity. The spot price of oil is 125s. to 130s. per ton.

MENTHOL.—Last week the market closed easier, with spot sales of Kobayashi-Suzuki at from 29s. to 28s. 9d. per lb. but this week there has been a sharp recovery, up to 30s. having been paid and buyers at this figure.

MERCURIALS will probably be advanced another 3d. per lb. in view of the rise in mercury.

METHYL SALICYLATE is firmer at from 2s. 9d. to 3s. 3d. per lb. on spot, as to quantity.

MILK-SUGAR is dearer, importers of finest Dutch powder asking from 210s. to 220s. per cwt. on the spot, as to quantity, which is an advance of 25s. to 35s. per cwt. on previous prices. American is quoted at 196s.

MINT OIL.—A good business has been done in Japanese dementhosilised at advancing prices, ranging from 6s. 4½d. up to 6s. 10½d. for Kobayashi-Suzuki on the spot, with 7s. asked on Wednesday. To arrive, the sales include parcels afloat at from 6s. 3d. to 6s. 9d. c.i.f.

MOLASSES has been in improved demand, and as the Government holdings have been cleared a "free" market is shortly expected.

MUSK.—First pile Tonquin pod is comparatively scarce at 110s. per oz.

OPIUM is weak and lower, with 11-per-cent. Turkey offering on the spot at 20s. per lb. Lower prices have been cabled from the primary markets.

ORANGE OIL.—Sicilian sweet is quoted on the spot at from 12s. 6d. to 13s. per lb.

PETITGRAIN OIL.—French is quoted at 25s. per lb. and Paraguayan at 15s. 6d. on the spot.

PHENACETIN may be one of the synthetics to be placed on the "excluded" list, as bitter complaints of American competition have been made from time to time by British makers. Dealers make the market "very firm" at from 15s. 6d. to 16s.

PHENAZONE is firm, dealers quoting from 30s. to 32s. per lb., as to quantity and seller.

PIMENTO is quiet, with spot sellers of fair at 5½d. per lb. on the spot.

PODOPHYLLUM-ROOT is dearer, importers offering at 95s. per cwt. on the spot.

POTASH PERMANGANATE.—This salt is being quoted at 3s. 6d. per lb. in cases, but prices are unsettled owing to intermittent supply.

QUICKSILVER was advanced 1l. per bottle on Tuesday, leading importers quoting 22s. 10s. to 23s.

SACCHARIN is quiet at 20s. per lb. in bond for American 550 pure on the spot. For the month of June and for the six months ended June 30 the following are the official figures:

	1917	1918	1919
	Tons	Tons	Tons
June imports	...	1	—
Jan.-June imports	...	7	25
Home consumption (June)	1	5	2
Ditto (Jan.-June)	6	23	6
Re-exports (June)	—	—	—
Ditto (Jan.-June)	—	—	7

SALICYLIC ACID.—B.P. powder is firm at from 1s. 10d. to 1s. 1d. per lb. on the spot, as to quantity.

SENEGA is a trifle easier, spot offering at 7s. per lb.

SHELLAC is rather cheaper on spot, the usual standard TN Orange quality offering at from 385s. to 387s. 6d., fine Orange at from 400s. to 420s., and AC cakey at 340s. Futures are lower, the sales including August at from 325s. to 330s., and October at from 392s. to 380s.; to arrive, TN for July-August shipment has been sold at from 365s. to 360s. c.i.f.

SODA BENZOATE is offered at 5s. to 5s. 3d. per lb. for small quantities on the spot.

SODA SALICYLATE has advanced by 3d. per lb. in some quarters, from 3s. 3d. to 3s. 6d. being quoted for B.P. powder, as to quantity.

TARAXACUM.—English dried is offered at 80s. per cwt.

TARTARIC ACID is steady at from 3s. 2½d. to 3s. 3d. per lb. on the spot.

TERPINEOL.—Pure to arrive is quoted at 3s. 9d. per lb. c.i.f., the spot value being 4s. 3d. to 4s. 6d., as to quantity.

TURPENTINE.—There has been well sustained activity in American spirit, and the tendency of prices has again been strongly upward. As indicated by the widening of speculative enterprise into the early months of next year, it is interesting to record the fact that a premium of about 2l. a ton has been established for deliveries over that period, and the movement may possibly become accentuated if, as apprehended, the increase in this season's crop yield proves disappointing as compared with last season, when operations were considerably hindered by the lack of labour and high costs. There is quite a fair supply on the spot, thanks to recent good-sized arrivals. The demand for manufacturing purposes, especially paint and varnish, is at an increased rate, and more important quantities will be required in the near future for neutral countries. The spot price closes at 92s. per ton.

VANILLIN.—With the refusal of the Board of Trade to grant import licences the market continues to advance almost daily in dealers' hands, and business has been done at prices ranging from 56s. to 60s. per lb., and 65s. is now talked of.

WAX, VEGETABLE is firmer, with buyers of Japanese at 32s. 6d. per cwt. net.

WOOD OIL.—Chinese is much dearer, sales having been made at the "record" price of 120s. per cwt. on the spot, and at 115s. for July delivery.

YOHIMBE-BARK.—At auction at Liverpool, on July 15, 248 bags were offered, but no bids were made. Sellers' idea of value was about 9d. per lb.

ZINC OXIDE is firm, but English makers are still retaining their prices at 70s. up to 85s. per ton in spite of the further considerable advance in the price of metallic zinc, which the Government is now holding for 44s. for near delivery. There is undoubtedly more competition in zinc oxide, partly from the Continent, Dutch makers accepting comparatively cheap terms in this market. This also applies to zinc-white, which is quoted from 45s. upward.

Guadeloupe Vanilla.

According to the "Tea and Coffee Trade Journal," this year's vanilla production in Guadeloupe is smaller than in the previous year. The average yield during the past three years amounted to 50,000 lb., but this year not more than 40,000 lb. is expected. In 1918 the plants bore comparatively few blossoms, but the fruits are exceptionally large. As considerable sums were lost in the vanilla trade during the previous year, American buyers have adopted an expectant attitude, with the result that in spite of the small harvest the prices are low.

Exports of Quinine from Java.

As will be apparent from the following figures, the total exports of quinine from June have increased by no less than 260 per cent. from 1913 to 1918. The amounts are given in 1,000 kilograms (metric tons) :

Exported to :	1913	1916	1917	1918
Holland	51	29	3	—
Great Britain	—	—	23	51
Other European Countries	15	14	2	14
United States	3	3	27	41
British India	5	5	12	60
Singapore	5	11	6	23
China	—	9	15	10
Philippines	—	8	1	6
Japan	5	14	25	26
Australia	—	3	3	4
Various Countries	2	19	12	16
Total	72	114	129	251

An Opium Factory in Dilly (Timor).

Some time ago the Portuguese Government decided to erect a large opium factory in Dilly, and several wealthy Chinamen in Hong-Kong, Singapore, and Macao chartered a special steamer to discuss the amounts they proposed paying to the Portuguese Government. After prolonged negotiations the contract was granted to a Chinaman for a very considerable sum. It is possible, says "De Indische Mercuur," that the crude opium will be shipped from Goa to Dilly, then taken to Macao to be smuggled into China, in the same way as the Japanese obtain the crude opium in British India, prepare it in Japan, then take it to Kautschau, from whence it is smuggled into China. "De Indische Mercuur" reminds the Dutch Government of the existence of an agreement between it and the British Government concerning illegal opium traffic, and asks why the Dutch Government has not protested against this contract made by the Portuguese Government, as it is very likely that some of this opium will be smuggled into the Dutch Indies.

Seychelles Cinnamon-leaf Oil.

Among the produce dealt with in the annual report of the Curator of the Botanic Station in the island of Mahe is the cinnamon-leaf oil industry, which was established in 1907 after three years of experiment. There are at present no fewer than seventeen distilleries at work, and the development of this new industry is largely benefiting the poorer classes. This will be seen from the fact that a distillery working 45 tons of cinnamon leaves a month gives employment to about ninety persons. With regard to the yield from the cinnamon leaves, it is stated to be very variable according to the time of the year and the age of the leaves. The yield varies from four to eight kilos. per ton of leaves. The work continues all the year round, and there are enough cinnamon trees growing on the hills in Mahe to allow of several more distilleries being put up. In the Government forests there are some huge trees, said to be more than a hundred years old, and from these seeds are scattered all over the islands by wild pigeons and mynah birds, which are very fond of the succulent berries.

American Chamber of Commerce.

A meeting of the Chemical Trade Group, presided over by Mr. I. A. Keene, was held on July 3, when among the

as related to the chemical industry, and requests the American Government to grant such official recognition to the delegates as will facilitate the accomplishment of their object. Among other matters discussed was the formation of the Central Importing Agency to buy dyestuffs in America for merchants in this country. Mr. Mason gave a short summary of the work of this Agency: The firm of Fairclough, Dodd & Jones, though not in the dye trade, circularised all the American manufacturers stating that they were the sole importers of dyestuffs on behalf of the Government, and asked for offers and samples. Mr. Mann, of Mann & Cook, got in touch with Mr. Graham, of the Board of Trade, who stated that though Fairclough, Dodd & Jones had no authority to circularise American manufacturers to this effect, they were going to be made the distributing agents. It was understood that the Trade and Licensing Committee at Manchester, who actually issued the licences, consisted of four men, who were all prominent dyestuff makers, as well as Mr. Graham, of the Board of Trade. The intending importer, when making application for licence to this Committee, had practically to disclose his whole business to the chief dye-makers in this country by stating who his suppliers and customers were, as well as the buying price and selling price of the goods. If the customer was not the consumer, the name had also to be given of the firms to whom the dyes were to be sold. The Manchester Committee stated that this was necessary in order to avoid compiling a number of statistics. The licence would be granted without great difficulty, and the goods consigned to the Central Importing Agency, who would charge the importer 1 per cent. commission. It was agreed by the Committee that it was a most radical step, and opposed to the interests of importers and merchants in Great Britain. Mr. Mason believed that any successful opposition could only be done in connection with the American dye-makers. It seemed fair that firms should get as much as possible from the British maker, but this could be achieved without importers having to disclose their business, either by means of a tariff and the refusal of all German dyes, putting the onus on the importer that the dyes had been imported from the country stated. The Committee believed that now Peace had been signed it was time that strong action should be taken. The suggestion was made, which met with the approval of the Committee, that the American Chamber of Commerce should on this point join forces with the British Chemical Trades' Association.

Arrivals of Chemicals, Drugs, etc.

The following arrivals have taken place at the ports named:

London (July 3 to 14).	Balsam Peru (N.Y.), 9 cts. Benzoin (Penang), 90 cts. Barvets, (U.S.) 1,285 brls., (Sp.) 3,800 bgs. Casein (B'bay), 1,618 bgs. Chamomiles (Ghent), 18 bls. Cinchona (Calicut), 7 bls. Cocculis indicus (Cochin), 100 bls. Acetic acid (U.S.), 81 brls. Bromides, ammon. (N.Y.), 60 cts.; potash, 66 cts.; soda, 99 cts. Citric acid, (Aust.) 58 kgs., (It.) 50 kgs. Glycerin (N.Z.), 23 drms. Paraform (N.Y.), 23 cts. Paraldehyde (N.Y.), 22 cts. Potash (Tokio), 5 cts. Potass. iodide (Jp.), 30 cts. Saltpetre (Cal.), 40 bgs. Tartar (It.), 10 cks. Tartaric acid, (Aust.) 160 kgs., (It.) 80 brls. 12 cks. Zinc oxide, (R'dam) 25 cks., (U.S.) 279 brls. Cocoanut butter (R'dam), 119 pkgs. Dextrin (U.S.), 440 bgs. Drugs, crude : roots, barks, etc. (N.Y.),	(U.S.), 3,000 cts. talcum powder (U.S.), 20 cts.; vaseline (N.Y.), 2,699 cts. Dyes, dyeing and tan- ning materials, etc.: dyes, not described (Belg.), 288 pkgs. cochineal (Tenerife) 3 bgs.; extract tan- ning, (Aust.) 40 cts. (U.S.) 426 brls. gall nut ext. (S'hai) 100 cts.; gambier (S'pore), 267 cts. hematite (N.Y.), 7 brls.; wattle-barbs (Natal), 5,883 lbs. Egg products: albu- men (S'hai), 966 cts. whole egg (spray (S'hai), 100 cts.; yolk (S'hai), 1,429 cts. 1,139 cks. 333 brls. Gelatin, (R'dam) 70 bgs. (Ghent) 11 bgs. Glucose (U.S.), 2,898 brls. 380 X 1/2 brls. 1,000 kgs. 3,000 bgs. Gums, resins, etc. gums, not described (B'bay) 215 cts. 227 bgs. (Aden) 12 bgs. acacia (Aden), 21 bgs.; copal (Amst.), 300 blks.; damar (Spore), 192 cts. karaya (Karak), 162 bgs.; lac, button (Cal.), 50 cts. 203 c. 160 bgs.; shell (Cal.), 375 bgs. 162 cts. 63 pkgs. 978
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Letters for this section should be written on one side of the paper only. The writer may adopt an assumed name for purposes of publication, but he must in all cases furnish his real name and address to the Editor.

The By-law Meeting.

SIR.—Have registered chemists who are not members of the Pharmaceutical Society no statutory right to object to admission of Tom, Dick, and Harry to the Register of Chemists without due examination? I certainly think every chemist on the Register has a vested contract, and a moral as well as legal claim, and obligation, to object to anyone being admitted without examination to the Register of Chemists and Druggists. If a referendum has to be taken, then it ought to be a referendum embracing every man and woman on the statutory Register of Chemists. I trust those who are not members of the Pharmaceutical Society will take united steps to protect themselves.

Yours, etc.

SCOTCH M.P.S. (91/89.)

SIR.—Your correspondent "Xrayser 11." has sounded the keynote. The by-law is dead, and we in Scotland would add, Long live the King! and likewise, the pharmaceutical democrats who worked to such purpose in dealing the death-blow. The longer we have to think the more do we denounce the by-law and all its lurid possibilities and potentialities, to say nothing of its infinalities. We in the drug-trade cannot appreciate too much the privilege that is ours in possessing THE CHEMIST AND DRUGGIST as an unbiased and untrammelled (by headquarters) journal which defends and fights for a better pharmaceutical world in Britain, and we cannot overestimate the services of Englishmen, Welshmen, and Anglo-Scots in wrecking the measure at that memorable by-law meeting. This is the spirit we have need of to remedy the apathy which exists in high places. The moment the Privy Council, or any other body politic or academic, see us rear on our hind legs—i.e., the legs we kick with or the methods we adopt—depend upon it they will treat us with far greater respect and consideration than in the past and will be careful how they meddle with us in future.

Yours,

SOLUS. (91/74.)

SIR.—I have read with interest the correspondence evoked by the by-law meeting, and there is no doubt that Mr. H. E. Matthews touches the right note when he points out the danger of a hole-and-corner meeting being convened and the by-law passed by a few supporters of the Council, and it is to be hoped that the By-law Protest Committee will continue its successful work by keeping an eye open for such an attempt and warning the members if necessary. But there are two points that I have not seen mentioned by any correspondent, and which should have some further light thrown on them. The first point is, What is the nature of the relationship between the Privy Council and the Pharmaceutical Society's officials which induces them to try to force through a by-law which is inimical to the best interests of their Society, and which has been opposed practically unanimously by all the members? Our officials descended to all the usual political tricks to defeat their own members' wishes. At the ordinary Council-meeting on July 1 the Secretary acknowledged the receipt of communications, the summary of which alone filled a complete page of the C. & D., and these were, with the exception of two, directly opposed to the by-law. Yet in the face of this the President rose to propose that the by-law be finally approved and confirmed. Now, will someone do a lasting service to pharmacy and tell us the real causes which would account for such action, so that we may know what we have to fight? The second point is the action of the Secretary

Henna (P. Said), 35 bds.	Vin., 7 brls, 1 cs.; pepper (E.I.), 6,079 bds.	Stearin, (Aust.) 44 pks.; St. John's, N.R.) 10 pns, 81 brls.
Honey, (Aust.) 3,783 cs., (U.S.) 171 brls., (N.Z.) 330 cs. 40 bxs., (W.I.) 5 cks.	Sponges (P'dam), 8 bds, 19 cts, 21 cs.	Tallow (N'way), 1,500 bgs.
Lead, white (U.S.), 35 brls.	Starches, (N.Y.) 25,750 bgs., 9,330 bxs., (Amst.) 25 cs.; potato (J.p.), 2,994 bgs.; wheat (Tokio), 400 bgs.	Tallow (inedible) (U.S.), 4,000 pkgs.
Lithopone (U.S.), 250 brls.	Stearin (Aust.), 1,618 bgs.	Wax, not described, (U.S.) 609 brls., (N.Y.) 513 brls.
Magnesite (Madras), 3,548 bgs.	Talc (lt.), 200 bgs.	Wax, paraffin, (Rangoon), 1,600 bgs., (N.Y.) 611 bgs. 969 cs. 792 brls.
Mineral white (It.), 100 bgs.	Tallow, (Aust.) 4,628 cks, 819 pks., (Shai) 1,000 pkgs., (Sydn) 819 pps., (N.Z.) 2,056 cks.	Folystone, (July 5 to 10).
Oils, essential: not described (Amst.), 2 cs.; anise-star (Ch.), 100 cs.; caraway (R'dam), 10 cs.; eucalyptus, (Aust.) 20 cs.; (Citrodoora) 2 cs.; mint (J.p.), 95 cs.; patchouli (Tokio), 20 cs.; turpentine, (Karakhi) 20 cts., (Swe.) 95 cks.	Vanilla, (N.Y.) 30 cs., (Tahiti) 32 cs.	Drugs (Fr.), 6 pkgs.; essential oil (Fr.), 77 cs.; perfume (Fr.), 12 pkgs.
Oils, fixed: coconut, (J.p.) 4,000 cs., (Cochin) 84 hds., 1,093 pns, 9,806 cs., (U.S.) 1,168 brls., (Amst.) 984 brls.; cotton, (N.Y.) 300 brls., (R'dam) 390 brls., (Shai) 2,500 cs.; fish, (J.p.) 3,000 cs., (U.S.) 1,200 brls.; olive (Sp.), 1,619 brls., 24 cs.; palm (R'dam), 2,435 pgs., 3,340 cs. 615 brls.; rape (R'dam), 147 brls.; soya, (J.p.) 12,000 cs., (Shai) 148 cks.; whale (N.Z.), 3 drms.; wood (Cob.), 220 brls, 287 cks.	Wax, not described (Mor.), 11 bgs.	Hull, (July 7 to 11).
Paraffin, jelly (U.S.), 65 brls.	Wax, bees', (E. Af.) 167 pkgs., 200 blocks, (Mor.) 10 pkgs.	Parfetes (Montr.), 105 brls.; Dutch drops (R'dam), 6 cs.; genetian (Port.), 107 bgs.; lithopone (R'dam), 40 cks.; magnesite (N'way), 204 bgs.; Seeds: cotton (Karachi), 22,405 bgs.; jambu (Karakhi), 26,060 brls.; lin. (E.I.), 1,803 bgs.; rape (E.I.) 42,702 brs.; stramonium-leaves (Port.), 2 bds.; wood oil (Port.), 12 drms.; zinc white (R'dam), 40 brls.
Perfumery (Fr.); 5 cs.	Liverpool, (July 7 to 12).	Almonds, (Port.), 100 cs.; 71 bgs., (It.) 50 bgs., (Sp.) 125 pkgs.; (round) (It.), 100 cs.
Phosphate rock (Sfax), 5,000 tons	Barytes (U.S.), 200 brls.	Barytes (U.S.), 100 brls.
Quicksilver (Sp.), 5,000 flasks.	Bronze powder (Can.), 165 cs.	Barytes (U.S.), 200 brls.
Seeds: apricot kernels, (Hong-Kong) 100 bgs., (N.Y.) 25 bgs.; canary (Fr.), 618 bgs.; caraway, (Amst.) 100 bds., (R'dam) 25 bgs.; cashew-nuts, (B'bay) 88 cs., (Mangalore) 153 cs.; castor (Bombay), 1,400 bgs.; copra, (Cobin) 28,908 bds., (Calif.) 7,953 pkgs., (S.S.) 2,872 bgs., (W.I.) 403 bgs.; cotton (B'bay), 24,457 bgs., 215 bds.; dari (Mor.), 2,975 bgs.; ground-nuts, (Madras) 2,410 bgs., (Ch.) 250 bgs., (W. Af.) 2,540 tons 1,576 bgs., (B'bay) 1,306 bgs., (U.S.) 2,615 bgs., (B'bay) 10,475 bgs.; ilipe (S'pore), 1,318 bgs.; lin (E.I.), 130,251 bgs.; millet (N.Y.) 785 bgs.; niger (B'bay), 490 bgs.; oil (E. Af.), 146 bgs.; palm kernels (W. Af.), 212 bgs.; poppy (B'bay), 1,611 bgs.; rape, (P. Said) 4,896 bgs., (E.I.) 6,624 bgs., (B'bay) 1,538 bgs.; soap-nuts (B'bay), 209 bgs.	Dextrin (U.S.), 5,690 bgs., 880 bgs.	
Soy (Cob.), 130 cks.	Dyes, dyeing and tanning materials, etc.: dyes, coal tar (U.S.), 9 brls.; cutch (Rangoon), 750 bgs.; extract: dyewood (N.Y.), 182 brls, 200 bgs.; extract, tanning (U.S.), 412 brls. 119 cks.; sumac (ground) (It.), 2,475 bgs.	Dextrin (U.S.), 5,690 bgs., 880 bgs.
Spices: arrowroot, (Trinidad) 23 brls., (St. Vin.) 666 brls.; cassia (Hong-Kong) 500 cs.; cinnamon, (Cey.) 100 pugs., (chips) 250 bds.; ginger, (Cochin) 496 bds., (Calcutt) 54 cs. 454 bds.; mace (S'pore), 152 cs. 1 brl.; nutmegs (St.	Glycose (N.Y.), 1,204 brls. 500 $\times \frac{1}{2}$ brls. 500 kgs.	
Vin., 7 brls, 1 cs.; pepper (E.I.), 6,079 bds.	Leaf white (N.Y.), 464 cs.	Manchester, (June 30 to July 8).
Sponges (P'dam), 8 bds, 19 cts, 21 cs.	Oils, essential, not described (Amst.), 90 pkgs.	Acetic acid (N.Y.), 83 brls.; argol (Port.), 556 bgs.; barytes (U.S.), 285 brls.; betanaphthol (N.Y.), 363 pkgs.; calcium phosph. (U.S.), 95 brls.; ebustum extract, (It.) 520 brls., (N.Y.) 2,051 bds.; cottonseed (Ind.), 1,900 bgs.; cuttlebone (E.I.), 66 bds.; dextrin (N.Y.), 2,200 pkgs.; drugs (N.Y.), 70 cs.; dyewood extract (N.Y.), 96 bds.; emulsion (Boston), 1,488 bgs.; farina (R'dam), 750 bgs.; formic acid (R'dam), 144 drms.; rustic (N.Y.), 38 brls.; glucose (N.Y.), 4,913 brls.; hematite crystals (N.Y.), 28 brls.; honey (B'bay), 327 cs.; magnesite (N'way), 305 bgs.; mineral white (It.), 200 bgs.; paraffin scale (N.Y.), 1,620 brls.; peach kernel oil (N.Y.), 28 cks.; soapstone (It.), 500 bgs.; starch (U.S.), 5,620 sks.; wheat, 440 bgs.; vaseline (Alex.), 112 cs.
Starches, (N.Y.) 25,750 bgs., 9,330 bxs., (Amst.) 25 cs.; potato (J.p.), 2,994 bgs.; wheat (Tokio), 400 bgs.	Glucose (N.Y.), 1,204 brls. 500 $\times \frac{1}{2}$ brls. 500 kgs.	
Stearin, (Aust.) 44 pks.; St. John's, N.R.) 10 pns, 81 brls.	Lead white (N.Y.), 464 cs.	
Tallow (N'way), 1,500 bgs.	Oil, essent. (Fr.), 10 cs.; perfume (Fr.), 20 cs.; stearin (Amst.), 1,293 bgs.; tartar (Fr.), 82 cs. 15 cts. 72 cks.; wax not described (Fr.), 20 pkgs.	
Tallow (inedible) (U.S.), 4,000 pkgs.	Southampton, (June 30 to July 8).	
Tallow (Rangoon), 1,600 bgs., (N.Y.) 611 bgs. 969 cs. 792 brls.	Aloes (Cape), 9 cs.; buchu (Cape), 4 cs.; carbon black (Fr.), 10 cs.; casein (Fr.), 286 bgs.; chemicals, not described (Fr.), 15 cs. 5 drms.; (aromatic), 2 cs.; drugs, 220 cs.; dyes, aniline (Fr.), 298 cks.; extract, tanning (Aust.), 48 cs.; lanoline (Cape), 10 brls.; oil, essent. (Fr.), 10 cs.; perfume (Fr.), 20 cs.; stearin (Amst.), 1,293 bgs.; tartar (Fr.), 82 cs. 15 cts. 72 cks.; wax not described (Fr.), 20 pkgs.	
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in leaving his post at the special meeting. I can understand the ex-President classifying his fellow-pharmacists as idiots; he was merely condensing into one terse and expressive word the Council's supercilious attitude to its members. I can also understand the President leaving the platform when he at long last realised how hopelessly out of touch his policy was with the Society in general, and what hostile feeling it had aroused; but I cannot understand the Secretary accompanying him in flight, as presumably he was there in an official capacity, and as such had neither political nor personal interest in either the passing or defeat of the by-law. I see that in his speech at the Holborn Restaurant he compared the members present at the Memorial Hall unfavourably with dock labourers, but possibly all the ill-feeling was not in the body of the hall only, and even if it had been there was more than sufficient excuse for men who had travelled from all parts to find that they were not allowed to take a decisive vote on the grounds of an elusive protest, which the President had not seen. Yours faithfully,

CHAS. HAMUS. (91/8.)

Mr. Francis E. Trayner, Hon. Secretary of the Association of Certificated Dispensers, sends us a letter in which he advances the following arguments in favour of the by-law which proposes to admit apothecaries' assistants to the Register of Chemists and Druggists :

I. The subsection was so vital to the Poisons and Pharmacy Act that the Government determined not to proceed with the Bill unless it were accepted.

II. High legal authority was cited, by the Departmental Committee on the Supply of Medicines to Insured Persons, establishing the principle that the powers conferred, although, *prima facie*, permissive or enabling, were in effect mandatory. Also that the failure to formulate the by-law on the part of the Pharmaceutical Society constituted "a serious grievance of (then) four years' standing," and further counselled "a spirit of frank accommodation" in the necessary negotiations.

III. In the numerous questions asked on the subject in the House of Commons the idea has always prevailed that the necessary by-laws would be made.

IV. The Privy Council, the chief department of Government, has all along been unwaveringly insistent in its attitude on the question.

V. The Pharmaceutical Council has now on three consecutive occasions approved of the by-law by greatly preponderating majorities, and has been supported by two of the most important chemists' associations.

The National Association of Chemists' Assistants.

SIR.—In view of the references to The National Association of Chemists' Assistants at the Sheffield meeting (*C. & D.*, July 12, p. 63) and by "Anti-Sweating" (p. 71), I should like to state that the N.A.C.A. is a bona-fide trade union, in that it is an organisation of the skilled employés in pharmacy entirely free from the slightest degree of control on the part of any employers or any persons whatever outside its own membership. For purposes of the Industrial Council it has equal rights of representation on that body with a registered union. On our part we have no desire to embitter relations between our members and those of other organisations. Our differences with the competing unions are differences of principle, and we stand our case on them. We do not follow certain avowed lines of policy laid down as principles of orthodox trade unionism. Chemists' managers and assistants, being educated persons, claim the right of settling differences by negotiation in preference to the arbitrary method of strikes. Other institutions and societies have successfully conducted their affairs by this peaceful method, and what others have done we can do. We do not ask the Transport Workers' Federation to stand behind us with a bludgeon because we cannot conduct our own case, nor do we open our ranks to a majority of men unskilled in pharmacy, thus placing ourselves in subordination to them. . . . Criticism of our *bona-fide* nature comes strangely from a union which admits to membership chemists in business, nor do we, like another union, request employers to urge their assistants to join our ranks. We

appeal to skilled pharmaceutical employés and them alone, and with their help we shall achieve all the objects we stand for.—Yours faithfully, D. N. FULLERTON,
Hon. Sec., N.A.C.A.

The Question of Salary.

SIR.—What a world of contradiction we live in at the present time. The following examples strike me as showing particularly how we muddle through in business matters as well as in national affairs : First, we have a "country manager" (*C. & D.*, July 5, p. 75) working for 50s. per week, and then the meeting at Sheffield (*C. & D.*, July 12, p. 63) pressing for a minimum of 7l. per week for qualified assistants! How a "Country Manager's" mouth must water when he reads this! I, too, knew a qualified man, married, two children, who worked for some years in a good-class dispensing business for 50s. per week; and, at last, being refused an increase or a bonus, in disgust wrote to a local company and was promptly engaged at 4l. 10s. to commence with, while his late employer now grumbles at the shortage of assistants and the evils of company pharmacy. Second contradiction : The movement for the Scottish Pharmaceutical Federation was inaugurated to deal with the commercial side of pharmacy, and as a result the Pharmaceutical Society now find that they have unlimited powers to protect the interests of chemists (*C. & D.*, July 12, p. 59). Why, this is what we have always argued, and have pointed out that the Charter definitely states the fact, but we have previously been told that the Society could not interfere with trade matters! And is it not remarkable that legal advice, as at the Memorial Hall, coincided with the Council's policy at the moment? Third contradiction : Sir William Glyn-Jones tells us that it is immoral to sell things without profit (*C. & D.*, July 12, p. 48), and yet our leaders advised us to accept the cost-price tariff for National Insurance Dispensing! But perhaps I am wrong in classifying such a transaction as cutting up a pound of boric lint into small pieces, wrapping up each one separately, and handing it over the counter for nothing as a sale; it must be either faith or charity, for hope has long since departed.

Yours faithfully,
PERVERSE. (91/21.)

A Use for Surplus Funds.

Mr. W. G. Jameson (Curtis & Co., chemists), 48 Baker Street, Portman Square, London, W.C., calls attention to the following appeal by Sir Arthur Pearson :

"Will you allow me to suggest to committees which are responsible for public decorations in connection with the Peace celebrations on July 19 that the whole or a portion of any surplus funds which remain at their disposal should be given to the men who, in helping to achieve the victory which led to these celebrations, lost the power of seeing the processions, the flares, and the other visible signs of national rejoicing? I refer, of course, to the blinded soldiers of St. Dunstan's, hundreds of whom have won a great personal victory, and hundreds more of whom are still engaged in their strenuous conflict with a bitter and relentless foe. I am particularly led to make this suggestion by the generous action of the members of the Collecting Committee for street decorations of Baker Street, Upper Baker Street, and York Place, who have decided to give the money which might have been spent on street decorations to the men of St. Dunstan's, contenting themselves with the display of four large street banners announcing this fact."

Co-ordination Wanted.

SIR.—I would like to support the letter of Mr. Newton of Hull (*C. & D.*, July 12, p. 71) anent co-ordination of meetings in London. One cannot, of course, travel two or three times during July to London to attend pharmaceutical gatherings, no matter how interested, unless, of course, living contiguous. I would suggest to the promoters of the Chemists' Exhibition that they run their exhibition simultaneously with the B.P.C. gathering, when the latter meets in the city.

S. HOGG.

Belfast.

Dispensing Difficulties and Notes.

Concentrated Infusion as Menstruum.

R. L. P. (208/43) sends us a prescription (5vj., tablespoonful dose), in which the prescriber has written "inf. gent. co. conc., ad 5vj." Our subscriber asks if he is right in assuming that the word "conc." was written in error.

[We should dispense the prescription as written, with inf. gent. co. conc., as the preparation is harmless. It will be recognised, however, that it is only the medical man who wrote the prescription who can settle the question decisively.]

An Incompatible Mixture.

SIR.—Can you tell us wherein lies the incompatibility in the following mixture?:

Liq. Donovan.	...	...	...	3ij.
Sp. chlorof.	...	...	...	3ij.
Sp. amm. arom.	...	...	...	3ij.
Vin. ferri cit.	...	...	...	3j.
Aque ad	...	...	...	3viiij.

M. ft. mist.

A precipitate is thrown down after standing for about twelve hours; the sp. amm. arom. is the distributing agent apparently, but why this should be we cannot understand.

Yours faithfully,

PUZZLED. (201/56)

[The incompatibility occurs between the Donovan's solution and the aromatic spirit of ammonia. Mercuric ammonium chloride is slowly formed, and falls as a precipitate. The mixture being weak, precipitation is not immediately evident. The aromatic spirit of ammonia should be added last when all the other constituents have been mixed. This procedure ensures a light precipitate, which diffuses sufficiently when shaken. The mixture is probably safe enough, although it is unusual to administer white precipitate internally. The quantity of the mixture to be taken per dose is not stated on the copy of the prescription sent. It is a customary practice to prescribe aromatic spirit of ammonia with iodides in order to lessen the nasal catarrh commonly resulting from their administration, and it is reasonable to suppose that it had not occurred to the prescriber of this mixture that there would be incompatibility any more than when sodium or potassium iodide is ordered in conjunction with aromatic spirit of ammonia.]

Legal Queries.

YORKS (25/6).—See reply to "Bill" (C. & D., July 12, p. 72). A local solicitor will draw up a suitable partnership deed. It is to your advantage to spread the payment over as long a time as possible.

Quinine (206/62) wishes to know whether the sale of a non-alcoholic orange quinine wine would be permitted in view of the official character of orange quinine wine *per se*, it being understood that the non-alcoholic imitation would be labelled as such. [We see no objection to its being sold if labelled in this way, but care must be taken that no anti-fermentation substance is added, as this might bring the article within the purview of the Sale of Food and Drugs Acts as an adulterated beverage. "Quinine" would require a table-waters manufacturer's licence (10s. a year) to entitle him to make the article for sale, and he would have to pay table-waters duty on all the wine delivered for sale. As to obtaining the licence and how and when the duty is payable, application should be made to the local surveyor or officer of Customs and Excise.]

Miscellaneous Inquiries.

S. J. C. (208/15).—PUNGENT IODINE LINIMENT.—When methylated spirit is used for dissolving iodine a pungent allyl compound is formed after a time, which increases the irritating properties of the solution. The matter was investigated many years ago by the late Mr. Peter MacEwan, who read a paper on the subject before the North British Branch of the Pharmaceutical Society in 1883.

GRIFFIN (210/40).—CLOUDY GINGER-BEER ESSENCE.—It is the resinous matter in the tinctures of ginger and capsicum that give the cloudy appearance when this essence is employed. Perhaps you are employing a miscible ginger essence, and so are unable to obtain the desired cloudiness.

C. F. (199/52).—BLEACHING PEPPER.—We have known dark pepper to be bleached with chlorinated lime, the powder being shaken up with a solution and then transferred to an acid bath. It is difficult, however, even when an anti-chlor (*e.g.*, sodium hyposulphite) is used, to get rid of the chlorine odour. Possibly the nitric oxide process which was applied to flour would be more successful.

T. D. C. (199/49).—Muter's "Analytical Chemistry" is published by Baillière, Tindall & Cox at 6s.

H. A. B. (210/51).—EUSOL.—Formulas and full particulars regarding this solution are given in *The Chemist and Druggist Diary*, 1918, p. 71.

C. H. & CO. (215/27).—PRESERVING CATGUT.—There is nothing that has the same effect as alcohol in the preservation of catgut, but cumene, benzene, and clove oil are also used.

G. M. (207/36).—BOOKS.—The publishers of Strawson's "Standard Fungicides" are Spottiswoode, Ballantyne & Co., but the book is not sold by them. The address of the Strawson Chemical Co., Ltd., is 79 Queen Victoria Street, London, E.C. You could perhaps obtain a copy of our book, "The Chemist-Optician," by advertising in the Coloured Supplement; otherwise it is out of print.

G. W. H. (207/49).—SQUILL RAT-POISON.—We have not been able to trace a formula for squill rat-poison devised by Pasteur. The following is a good formula for this preparation:

Wheat flour	...	...	...	25 parts
Mix with				
Fresh milk	...	...	...	50 parts
Heat				
Mutton suet	...	...	...	5 parts
Salt	...	...	...	½ part

together for twenty minutes in water-bath.

Mix finely cut squill 120 parts with the above and preserve in glass vessels.

This is not likely to keep long, and we suggest the addition of a preservative (salicylic acid), and some glycerin if there is a tendency for the paste to dry up.

W. T. A. (204/67).—"Pharmaceutical Formulas" has a chapter of practical recipes for perfumery and toilet preparations, and is specially adapted for chemists. There are one or two useful books in French, the most recent being Gattefosse's "Agenda du Chimiste Parfumeur" (Editions Scientifiques Françaises, 25 Rue Lauriston, Paris).

C. H. (205/53).—POPULAR CHEMICAL LECTURES.—We have from time to time given outlines of lectures suitable for delivering by chemists to a popular audience—*e.g.*, C. & D., February 15, 1908, p. 279 (on "Matter"); February 22, p. 313 (on "Water"); February 29, p. 349 ("Some Interesting Drugs"); March 7, p. 335 ("The Breakfast-table"). As a source of material for chemical lectures we know of no more suitable books than Martin's "Triumphs and Wonders of Modern Chemistry" (Low & Co., 7s. 6d.), and "Modern Chemistry and its Wonders," by the same author.

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," July 15, 1869.

British Pharmaceutical Conference.

Exeter will be the capital of scientific England during the third week of next month. The thirty-ninth meeting of the British Association will commence in that city on Wednesday, the 18th of August, under the presidency of Professor Stokes, the Secretary of the Royal Society; and the local committee have already issued a circular explaining the arrangements made for the reception of visitors, together with a map of the south-west counties, indicating the various places and objects of general and scientific interest. . . . To pharmacists the sixth annual meeting of the British Pharmaceutical Conference will prove even more attractive than the meeting of the parent Association. Now that the rocks and shoals of legislation have been left behind, the good ship "Conference," with Mr. Daniel Hanbury at the helm, cannot fail to make steady progress on the track of pharmaceutical science, and as there are no signs of foul weather, the crew may look forward to a merry time. The meeting will be opened on the morning of Tuesday, the 17th of August, but, as the Secretaries have not yet issued their circular, we cannot give full details of the arrangements until our next number appears.

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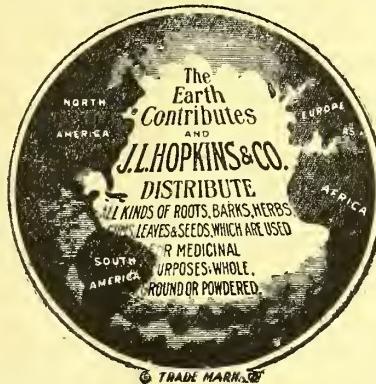
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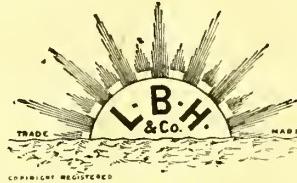
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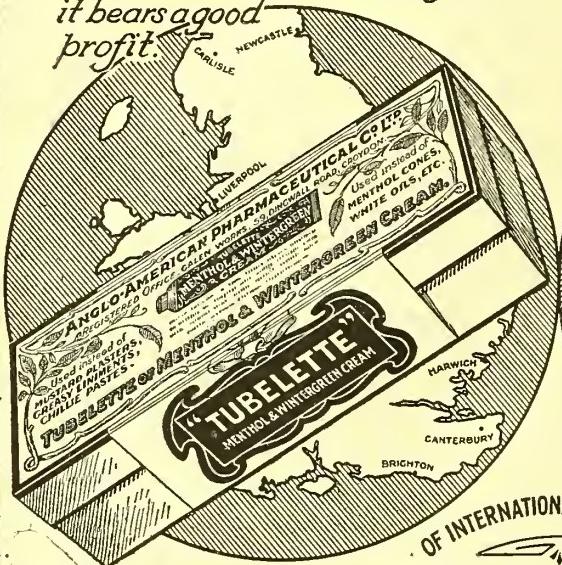
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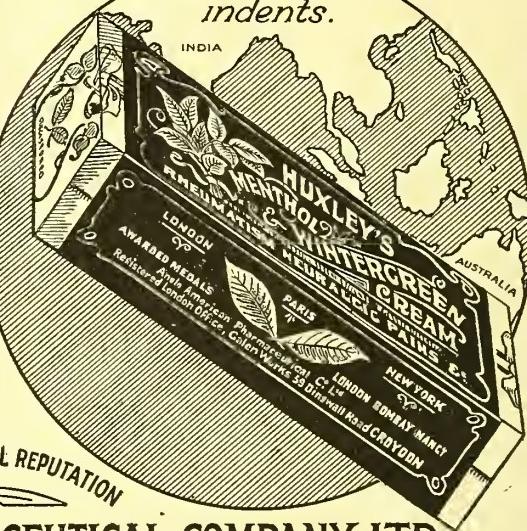
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Acetanilid	Glucose	Paraformaldehyde
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Every tablet guaranteed to contain gr. 5 PURE ASPIRIN, B.P., m.p. 135·5, as supplied by us on contract to the Allied Armies.

Packed for the Trade, in unlabelled bottles, as follows :
 25's—**4/6** per dozen. 50's—**8/3** per dozen. 100's—**14/9** per dozen.
 Bulk, **8/9** per 1000.

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ASPIRIN, B.P., superfine quality, **7/6** per lb.

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Made from Monsanto Saccharin, each guaranteed to contain $\frac{1}{2}$ gr. 330 in 1, 7,000 to the lb.

1 lb., 50/- 7 lb., @ 48/- 14 lb., @ 46/-

In envelopes each containing 100 @ 9/- per doz.

$\frac{1}{2}$ gr., 1 lb. 27/-, 7 lb. 25/-, 14 lb. 23 -

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Carriage Paid.

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To EXPORTERS and others.

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FINEST QUALITY SACCHARINE TABLETS.

$\frac{1}{2}$ Grain, '330 Strength Guaranteed.

20/- per pound.

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ENGLISH ASPIRIN ONLY. EACH tablet contains 5 grs. B.P. Aspirin of the well-known make of Pierson, Morrell & Co., Ltd.

25's, 4/6 per doz.

In cartons, 3d. per doz. extra.

An Attractive
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100's, 13/6

per doz.

REGISTERED.

With own name and address if required.



**50's, 7/6
per doz.**

One or more of
these boxes given
free according to
the requirements
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A selection of 30 varieties of labels

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Tablets & Pills

WE invite inquiries for all kinds of Tablets and Pills, plain or sugar coated, packed or in bulk.

Our products are made from the very finest materials and can be relied upon to give every satisfaction.

We also make a speciality of Private Formulae Pills and Tablets.

All inquiries treated with the strictest confidence.

ASPIRIN TABLETS.

25's 4/6, 50's 8/3, 100's 14/6 per doz.
Bulk, 8/6 per 1,000.

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ASPIRIN TABLETS

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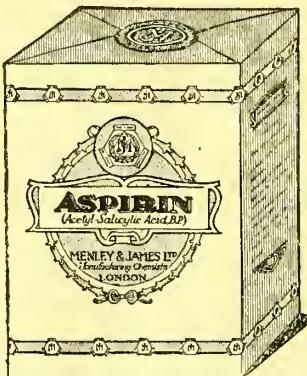
"The sample of Acid Acetylsalicylic is certainly as good as Bayer's. I have seen a lot of samples lately, and all have more or less free salicylic acid and the acetic odour predominant." —M.P.S.

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Our Acetyl-Salicylic Acid is now issued in branded packages. It is super B.P. and is used exclusively in the manufacture of our Tablets for which we enjoy a high reputation. May we quote you?

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"I have compared M. & J. Aspirin with other makes, but get quicker physiological action from M. & J. than with any other brand."

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—Ph.C.

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SAPONINE
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MANUFACTURED BY
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A few reams Strong Brown Tissue,
18×28 @ 12/- 5 reams carr. paid.
Brown from 45/- per ream. Swedish
Kraft 80/- cwt. Pure Greaseproof,
20×30, 24 lbs. @ 40/- per ream.

ÉTABLISSEMENTS CHATELAIN,2 & 2 bis RUE DE VALENCIENNES, PARIS.
*Sole Manufacturers of***JUBOL****RE-EDUCATION OF THE INTESTINE.**

Constipation, Enteritis, Haemorrhoids, Indigestion, Skin Blemishes, &c.

Price 5/- per box.

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Anæmia, Nervous Exhaustion, General Debility, Tuberculosis Convalescence, etc.

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New Scientific Preparation for Chronic Skin Affections, Psoriasis, Eczema, Acne, etc.

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Metrorrhagia, Dysmenorrhoea and Lactation, Pains, etc. etc.

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GYRALDOSE.

Antiseptic for local Gynaecological use.

Price 4/- per box (powder)

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FILUDINE**SPECIFIC FOR THE LIVER.**

Malaria, Diabetes, Cirrhosis, Sluggish Liver, Tuberculosis, etc.

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CLEAR PROFIT**

is made on the sale of BLENOSAN CAPSULES. Owing to the extensive advertising propaganda embarked upon to the Medical profession, the sales are daily increasing. Every Chemist should be ready with stock to meet the demands of the Medical profession, who are prescribing BLENOSAN for the treatment of Gonorrhœa and other urinary troubles. *

On P.A.T.A.

32/- doz. Only size tin, 3/6 each

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BISHOP'S PIPERAZINE CITRATE

A REMEDY OF ESTABLISHED AND DEFINITE VALUE

**IN GOUT, LUMBAGO, SCIATICA, NEURITIS, GRAVEL, STONE,
AND ALL MANIFESTATIONS OF THE URIC ACID DIATHESIS.**

Prescribed by the British Medical Profession for 20 years.

The undoubted superiority of Bishop's Piperazine Citrate, and preparations containing it, is due to the stability of the salt, Piperazine Citrate, which, being non-volatile and non-hygroscopic, undergoes no change upon exposure to heat or moisture, and thus lends itself to all manufacturing and dispensing processes.

Piperazine base, on the contrary, is so volatile and hygroscopic that it cannot be manufactured or dispensed with any degree of accuracy. Hence the unreliability of all Piperazine preparations that are not made with Bishop's Piperazine Citrate.

**PIPERAZINE CITRATE
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ALFRED BISHOP, LTD.**

Bishop's Piperazine Citrate is the most powerful uric acid solvent known. It neutralises twelve times as much uric acid as any other alkaline solvent, and the resulting Piperazine urate is eight times as soluble as any other urate.

Bishop's Piperazine Citrate is non-irritant and non-toxic. It does not derange the digestive functions and is easily borne by even sensitive stomachs.

Bishop's Piperazine Citrate is supplied in crystalline powder for dispensing, and also in the Granular Effervescent form and Varalettes. The value and reliability of these preparations have been established by abundant clinical experience.

WE CAN, HOWEVER, SUPPLY PIPERAZINE BASE IN LARGE OR SMALL QUANTITIES, FOR MANUFACTURERS WHOSE PROCESSES CALL FOR IT.

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ALFRED BISHOP, LTD. **MANUFACTURING CHEMISTS,**
48 SPELMAN STREET, LONDON, E.1.

"SOLAZZI" LIQUORICE JUICE

THE CHEMISTS' BRAND.

'The Lancet' says: 'Of Standard Purity'

Recommended also by *The British Medical Journal, Health, The Chemist and Druggist, Food and Sanitation*.

Ask for SHOWCARDS and HANDBILLS. To be obtained of all Wholesale Houses.

WHOLESALE TRADE ONLY.

Established 1900.

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**For GREEN EXTRACTS and DRIED HERBS
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'KO-TAL-KO'

CERTAIN IN RESULTS
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THE PUBLIC WANT IT

For strong advertising has taught them its merits, and practical experience has proven its claims. "KO-TAL-KO" is the strongest recommended hair preparation on the market, and this, in conjunction with my widespread publicity, is the best of all reasons why

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Apart from quick and ready sales my trade prices allow of a fair profit to you. "KO-TAL-KO" is always on the move, never cumbers the shelves long, and is a business asset of the highest value for your repeat orders are always warranted.

IT PROFITS EVERYONE.

"KO-TAL-KO" does justice to me, to you and to the public, and every Chemist and Druggist should order a supply.

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PRICE
48/- per
112/6 ..

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PRICE
P.A.T.A.
5/- Size
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Prescription

FOR ALL SKIN & SCALP DISEASES

A well-advertised, high-grade preparation, enjoying a steadily increasing sale. On the P.A.T.A. protected list, giving the retailer a profit of about 25%.

TRADE PRICES.

D.D.D. Prescription	2/9 bottle, M.R.P. Face Value,	@ 25/6
"	5/- "	47/-

In two strengths—Ordinary and Strong.

D.D.D. Soap	... 1/ tab, M.R.P. Face Value,	@ 8/3
" Shaving Soap	1/6 stick	13/6
" Vanishing Cream	2/6 jar	22/6
" Shampoo Powders	2/6 box	22/6

Carriage paid to any part of the United Kingdom.

Showcards, &c., Supplied Free.

D.D.D. Co., Ltd.
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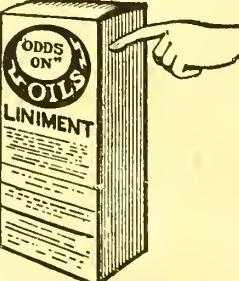
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Watch this Space NEXT WEEK

RAPIDLY INCREASING DEMAND FOR

"ODDS ON" OILS

Liniment for RHEUMATISM, SCIATICA, SPRAINS, &c.

WIDELY ADVERTISED. Retail Prices : 1/3, 3/- & 8/- bottles

Obtainable from all Distributing Chemists or direct.

The "ODDS ON" SPECIFICS CO., LTD., 36-37 Cock Lane, LONDON, E.C.

On the P.A.T.A.

DIAMALT (Diastasic Malt Extract)
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 COD LIVER OIL.

Adequate supplies available for immediate delivery.

THE BRITISH DIAMALT COMPANY, Bishop's Stortford.

Proprietors : { H. A. & D. D. TAYLOR,
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A new palatable form of "YADIL" ANTISEPTIC
for internal administration.

ELIXIR "YADIL"

has proved clinically successful and
is now being brought to the
notice of the entire
Medical Profession.

Medical men
are advised that
supplies may be obtained
from their chemists.

SIZES and PRICES.

6 oz.	20 oz.	40 oz.	80 oz.	160 oz.
Retail 4s. 6d.	12s. 6d.	24s. 0d.	45s. 0d.	70s. 0d.
Chemists 3s. 4½d.	9s. 4d.	18s. 0d.	33s. 3d.	56s. 3d.

All orders should be placed through usual wholesale houses.

CLEMENT & JOHNSON,

SOLE MANUFACTURERS.
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IT CLEANS WHEN OTHERS FAIL.

"CASSO"

Cleans immediately, with NO exertion,
Baths, Marble, Paint Work of every description,
Brass, Silver, Tiles, Toilet Ware, Linoleums,
Floors, Sinks, Kitchen Table Tops, &c. &c.

Removes Grease or Dirt from the Hands, and
does not injure the Hands or Clothes.

"CASSO" has no faults, it does not deteriorate
through keeping in stock, does not injure or
scratch the finest enamel work.

"CASSO" is packed in 1-lb. Tins retailing at 1/-,
and 2-lb. Tins retailing at 1/10. Money returned
to any customer who is not satisfied.

"CASSO" shows a GOOD Profit to the Retailer.

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Please note that FULL Stocks of

SUBITOL

SUBITOL SOAP
SUBITOL CAPSULES
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are now available, and orders
can be executed per return.

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(CHEM.), LTD. Medical Dept. 14

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ARRIVAL OF LIMITED STOCK OF



After being for long practically without stocks, we have now just received a limited re-starting lot, which will be equitably and proportionately distributed.

PRICES.

Retail.	Trade.
9d.	7/7 per doz.
1/3	12/8 "
2/6	25/3 "

Less 5% for payment at 1 month.
£3 and up. carr. paid.

The Trade may therefore now order, through their Wholesalers or direct from

J. E. GARRATT, 96 Southwark Street,
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ESTABLISHED 1871.

Telegraphic Address:
"Toothache Sheffield."

BRITISH Aspirin Tablets

9/- per 1000

Each tablet contains 5 gr. B.P. Aspirin.
As supplied by us to the Military Hospitals.
Bottles—25s, 4/6; 50s, 8/-; 100s, 14/9.

BRITISH Saccharin Tablets

3 grain 550 in 1.

In packets or bottles of 100, 200 or 500, and in Bulk. Special quotations for quantities.

All drugs are tested, and tablets made in our own factories, and guaranteed by

G. CARR & CO. Ltd.

Manufacturing Chemists,
Wilkinson Lane - SHEFFIELD.

Sanatogen Trade Mark



TRADE MARK.

Referring to the application to the Registrar of Trade Marks, reported in the *Chemist and Druggist*, February 1, 1919 (page 46,) we are informed that the Board of Trade have decided not to reinstate the words "Sanatogen" and "Formamint" on the Register of Trad. Marks.

LORIMER'S SANATOGEN & FORMAMINT

are the genuine articles and the most perfect of their kind.

PRICES CONTINUE AS UNDER:

Sanatogen, 3/3 size - 24/- per doz.

" 6/- " 42/- "

Formamint Tablets - 15/- unstamped.

" " 18/- stamped.

All net cash with order, carriage paid.

John Lorimer, 10 City Rd., London, E.C.1

I HAVE MADE A LARGE PURCHASE OF

SACCHARIN TABLETS

$\frac{1}{2}$ grain 330 in 1, at
LESS THAN THE AMOUNT OF DUTY ALONE.

These have been tested and are fully guaranteed.

I am offering these until cleared at
32/- per pound;
4/9 per thousand,
packed in 100's at **6/- per dozen.**

Cash with Order. Window Bills Free.

With orders to the value of £5 I also send **FREE A SMART WINDOW SHOW.**

$\frac{1}{2}$ grain 330 in 1, and $\frac{1}{3}$ grain 330 in 1 : prices as before.

WALTON, Chemist, BATLEY.



VITAMOGEN contains the essential Vitamines in an active and concentrated form. VITAMOGEN is in itself a food of the highest potency, rationally concentrated according to approved scientific methods. It is rich in organic, i.e. assimilable Phosphorus, and the proportion of nutritive constituents is well balanced to meet the physiological needs of the organism.

VITAMOGEN stands alone as a means of supplying the Vitamines—an entirely new food element.

VITAMOGEN is packed in two sizes, 2/9 and 5/9, obtainable from all the principal wholesale houses.

VITAMOGEN owes its origin to our Chairman, who, 20 years ago, invented Virol, the well-known Invalids' Food.

24 HOLBORN,
LONDON, E.C. 1.

Vitamogen
LTD.

LIQUID BARKOLA COMPOUND

**Wholesale 26/- per doz.,
less 10 & 5%. Retail 2/9 each.**

Each bottle (1 oz.) carries instructions to the chemist to make up to the following Standard Formula—

Liq. Barkola Comp., 1 oz.; Tincture of Gentian, 1 oz.; Syrup of Rhubarb, 1 oz.; Syrup of Ginger, 5 oz.

Chemists charge according to their own scale for dispensing

**THE BARKOLA CO., LTD.,
42 Great Dover St., LONDON, S.E. 1.**

Proprietors of Barkola Alvexo, Barkola Balm, &c. &c.

Grasshopper OINTMENT AND PILLS

Protected at Face Value by P.A.T.A.

These remedies have been before the public for upwards of fifty years, and ARE STOCKED by all the leading WHOLE-SALE HOUSES throughout England and the Colonies.

During the last three years our expenditure in ADVERTISING has been TREBLED.

Our turnover has also TREBLED, and MAIL ORDERS have multiplied TENFOLD.

MAIL ORDERS we do not desire, they entail additional labour without extra profit, and indicate that our goods are not stocked by the RETAIL CHEMIST, sales thus being undoubtedly lost.

To obviate this, if YOU WILL stock our goods WE WILL indemnify you AGAINST LOSS by accepting returns direct at our warehouse and PAYING for same by return post at invoice price PLUS cost of postage or carriage.

ALBERT & CO. 73 Farringdon Street, LONDON, E.C. 4

BEECHAM'S PILLS

WHOLESALE PRICES.

Beecham's Pills :

1s. 3d. size	...	...	...	...	10s. 6d. per doz. net.
3s. 0d. "	...	...	...	...	26s. 6d. " "
5s. 0d. { new size ...	...	...	...	...	50s. 0d. " "

(contains double the quantity of 3/- box.)

Beecham's Cough Pills:

1s. 3d. size	...	...	...	10s. 6d. "
3s. 0d. "	...	...	...	26s. 6d. "

Orders: Minimum quantity £5 value—approximately. | Packages FREE. Carriage PAID.

These Prices are the lowest no matter what quantity is ordered.

TERMS: CASH WITH ORDER.

Cheques to be made payable to THOMAS BEECHAM, and crossed "Parr's Bank, Ltd., St. Helens."

Season—1919.



COD LIVER OIL

GUARANTEED GENUINE.

*Manufacturers:***BRÖDR. AARSÆTHER, A/S Aalesund, Norway.****Wholesale only.****No Retail Orders Executed.****Agents: FREUDENTHEIL & CO.** 21 Mincing Lane,
LONDON, E.C.3.

Tel. Add.: "FREUDENRUF." Codes used: A B C, 4th & 5th Edit.; and Private. Tel. 12513 Central.

BEST ENGLISH MAKE**SEA-TANGLE TENTS**

(LAMINARIA DIGITATA)

For dilating the OS and CERVIX UTERI.

Introduced by SIR JAMES SIMPSON, M.D.

SPECIAL ADVANTAGES.

Firstly—They are cheaper in price than Sponge Tents.

Secondly—More easy of introduction.

Thirdly—More potent than dilators.

Fourthly—Cleaner in their use.

Lecture by PROF. SIMPSON, "Tangle Tents," at the Obstetrical Society of Edinburgh.—See Edinburgh Medical Journal for July 1864.

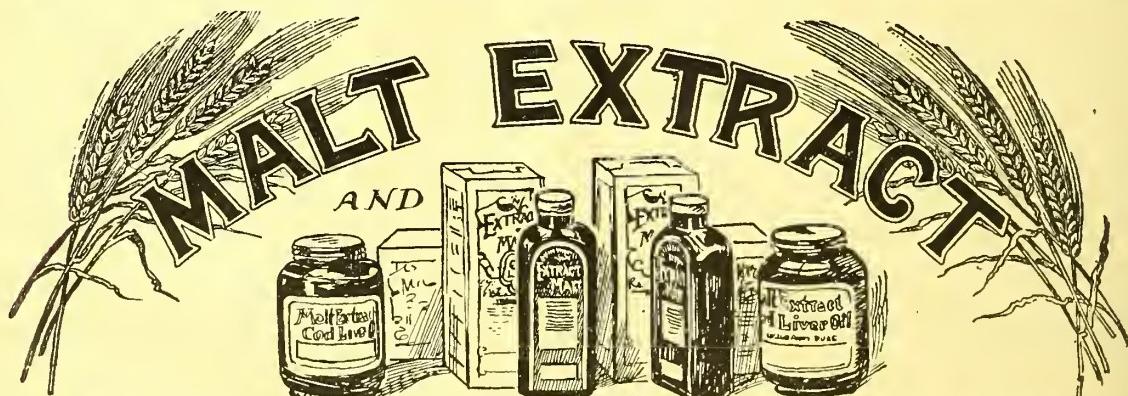
Manufacturer: E. BRASSE (late R. Manson)
Culvert Works, Culvert Road, South Tottenham, London, N. 15**Swiss Bank Corporation**Basle, Zurich, St. Gall, Geneva, Lausanne, La Chaux-de-Fonds,
Bienne, Chiasso, Herisau, Le Locle, Nyon.

London Office - - - 43 LOTHBURY, E.C.2.

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Capital Authorised & Fully Paid-up £4,000,000
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**MALT & COD LIVER OIL**

Prepared only from the finest East-Coast Barley, Combined with the best Norwegian Non-Freezing Cod Liver Oil.

Packed in Screw-Capped Jars, Bottles and Tins, holding 1 lb. and 2 lbs. Neatly Labelled and Wrapped. Customer's Name printed on Labels for Orders of 1 gross and upwards.

TELEPHONES:
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(3 lines).**PERRY & HOPE, Ltd.**TELEGRAMS:
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ANGIER'S EMULSION



In taking this opportunity of conveying to the Wholesale and Retail Trade our appreciation of the courteous and patient consideration extended to us throughout the trying period of shortage, it is with much satisfaction we are able to announce that supplies of Angier's Emulsion now enable us to execute normal orders to meet our customers' immediate requirements.

Just as soon as a sufficient reserve stock of Angier's Emulsion has been accumulated advertising will be greatly augmented and our customers will then be advised to anticipate their requirements well in advance, in the full confidence that consequent increasing demand for Angier's Emulsion is a sure guarantee against dormant stock.

ANGIER'S THROAT TABLETS.

We regret to announce that the shortage of Angier's Throat Tablets still continues, and for the present we are unable to execute orders for same.

FASSETT & JOHNSON, LTD.,

86, Clerkenwell Road, London, E.C.1.

Langley-Smith & Co.

Castor Oils, Medicinal,
Lubricating.

Colza Oils, Best Pure,
Prepared.

Linseed Oils,

Best Raw,
Double Boiled,
Refined.

Turpentines,
Best Pure Spirits.

Substitutes,
Best Grades.

Samples and Prices on Application.

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Tel. No.—Avenue 3820.

METHYLATED SPIRIT

OILS AND CHEMICALS.

Buy from one of the Oldest Houses in the Trade.

Write for Prices. ESTABLISHED 1794.

SAMUEL THORNLEY, LTD., BIRMINGHAM

PETROLEUM JELLY

ALL GRADES.

GUMS. WAXES. DEXTRINE.

W. M. Kidston & Co., 43/45 Great Tower St., London, E.C. 3.

Telegrams: "KIDSTONISM, BILGATE, LONDON."

Telephone: AVENUE 8057.

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TECHNICAL AND MEDICINAL
WHITE OILS

PETROLEUM JELLIES,
WHITE, YELLOW, DARK

PARAFFIN WAXES

NEUTRAL OILS,
DEBLOOMED AND UNDEBLOOMED

PALE & RED LUBRICATING OILS

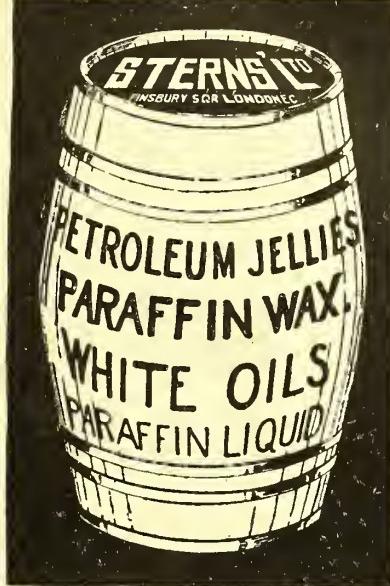
CYLINDER OILS,
STEAM-REFINED, FILTERED

WHOLESALE ONLY

W. J. SMITH

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The JAMES B. BERRY'S SONS CO. Inc.
110 CANNON STREET, LONDON, E.C. 4



STERNS LIMITED

A.D.5., Royal London House, Finsbury Sq., E.C. 2.

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White, Yellow, Amber and Red.

For Pharmaceutical and General Purposes.

AMERICAN SPIRITS OF TURPENTINE,
OLIVE, CASTOR, COLZA OILS,
ROSIN, and LUX BLOOMLESS MINERAL OILS.

James Arnott & Sons, Ltd.

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METHYLATED SPIRIT
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We offer

WAXES

PETRO. JELLY

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WHITE OILS

Send us your inquiries.

**J. J. FRANSES & SONS,
LIMITED,**
80a Southwark St., LONDON, S.E. 1.

EUCALYPTOL (CERNOL),
B.P. STANDARD.
PEPPERMINT-KETONE
AND
All Grades Eucalyptus Oils
Large Stocks always on hand.
GILLARD GORDON, LTD.
SYDNEY - AUSTRALIA.
*Largest Actual Distillers of
Eucalyptus Oil in Australia.*
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INDIAN PRODUCE

First-Hand Supplies.
Shipments direct from India to U.K.
**OILS, OILSEEDS, GROUNDNUTS,
FODDER-CAKE, COPRA, CAPOC,
SPICES, CITRONELLA, etc.**

DE GROOT BROTHERS
Schiedam Holland

P.A.T.A. NOTICE.

113 Temple Chambers, E.C. 4.

July 19, 1919.

The following revised prices are now in force :

Advertised Price.	Minimum Retail Price.	Minimum Wholesale Price.
"CUTEX" Manicuring Preparations :		
3/- Compact Manicure Set	3/-	25/6 doz.
9/6 Travelling "	9/6	78/- ..
18/6 Boudoir "	18/6	162/- ..
4/6 Ideal Cuticle Remover	4/6	36/- ..
7½d. Nail Cakes (Trial Size)	7½d.	4/- ..
"VELOT"		
2d. Cream Soap (Miniature)	2d. tab.	18/6 gross
6½d. " (Toilet)	6½d. "	60/- ..
1/- " (Bath)	1/- "	114/- ..
10d. Shaving Stick	10d.	84/- ..

MEMBERSHIP.

Many more Retailers are urged to join the P.A.T.A. in their own interest. The subscription is 7/6 per shop per annum, and this small amount should not prevent any retail dealer in P.A.T.A. Proprietaries from immediately becoming a member. All P.O.'s and cheques (crossed) should be sent to the Secretary at the above address.

GOOD!

IT'S MASON'S

The Drink for the Masses



Millions of glasses used daily by workers all over the Empire

Please allow us to Sample and Quote—

- Citrate Magnesia**
- Health Salt**
- Salines**
- Liver Salt**
- Blood Salt**
- Sulph. & Sarsap. Salt**
- Lemonade**
- Crystals, &c.**

NEWBALL & MASON
NOTTINGHAM

Pyramid Corks



Named after the ancient pyramids because of their dependable qualities, and if you look for the trade mark and see always that you get "Pyramid" Corks, your troubles are abolished. Get some to-day.

N. W. Mitchell & Sons, Ltd.
The Cork Firm, Limehouse, London, E.14.

Established 1839.

Chemists' Overalls

Gardiner & Co.

We supply protective overalls and aprons in any colour or style required. They are made by experienced hands for all branches of the chemical trade.

Keenest Quotations sent on request, or a special representative will be pleased to call.

Head Office : Gardiner & Co. (The Scotch House) Ltd.
1 Commercial Road, E. 1.

Phone: 8650 Ave.

LOFTHOUSE & SALTMER, Ltd.

Wholesale and Export Drug Merchants,
Manufacturing Chemists

HULL.

INVITE the Trade to take up the following valuable P.A.T.A. Protected Lines, bearing a large Protected Retail Profit, which sell freely and are well known and valued by the Public in many parts of the country.

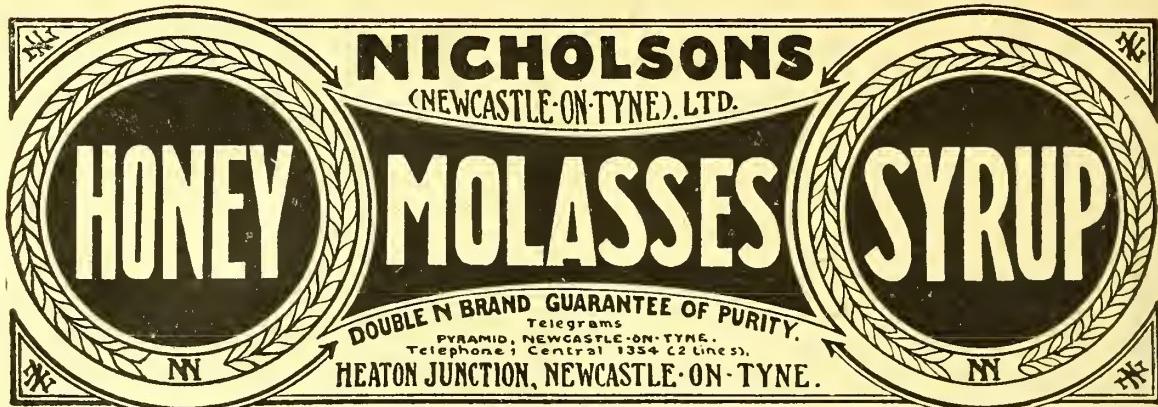
P.A.T.A.	Protected Retail Price.	Dozen Net.
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* LOSALL'S SALT (well advertised), tins	10d.	7/-
* " " " bottles in }	1/7	13 6
* " " " cartons }	2/-	18 -

Losall's Salt sells so well, surely it must pay Pharmacists to stock such a big profit-bearing protected line.

LOSALL'S COMPOUND SULPHUR SOAP.

A valuable emollient medicated skin soap, especially suitable for use in Eczema. 3 Tablets in a box at 8d. each tablet.	Box. Doz.
	2/- 18/-



TO BUYERS OF
English Herbs & Roots
FRESH AND DRIED.

FLEMONS & SONS
Herb Merchants, DUNSTABLE

Solicit inquiries for the following:

Belladonna Leaves
Root
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Seed
Digitalis Leaves

Dandelion Root
White Bryony Root
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Yellow Dock Root
etc.

A Full List and Quotations sent on application.

JOY'S MEDICINAL CAPSULE CO.

Wholesale Manufacturers
OWN MATERIAL FILLED IF REQUIRED.
Address— 23 WILSON STREET,
— GLASGOW —

CHELTINE MILK & MALT FOODS

No. 1, from birth to five months.
No. 2, from five months onwards.
No. 3, for Invalids, Dyspeptics, the aged,
and those with enfeebled digestions.

Experience is proving, and medical men are testifying to the value
of these perfect Foods.

Terms and full particulars from

THE CHELTENE FOODS CO., CHELTENHAM.

CARAMEL COLOURING

(Sacch. Ust.)

For ALL PURPOSES.

PERFECT PURITY.
Highest Colour Value.

IMMEDIATE DELIVERY to Manufacturers and Wholesale buyers only.

E. J. HAY & CO.

THE Caramel Specialists,

Essex Wharf, Limehouse, LONDON, E. 14,
AND
104 Sackville Street, MANCHESTER.

HONEY

per **100/- cwt.**

**THE
GENERAL CHEMICAL CO.**

Works address :

Queen Street, WIGAN.

A SENSE OF SECURITY IS A SOURCE OF SATISFACTION

The Chemist who dispenses

PEPSIN (ARMOUR)

GLYCEROLE PEPSIN (ARMOUR)

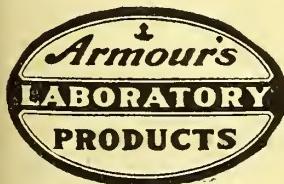
PANCREATIN (ARMOUR)

GLYCEROLE PANCREATIN (ARMOUR)

may be assured that he is giving his customers the best goods procurable.

Armour's Digestive Ferments are made from fresh raw material, and each (lot) is tested by an analyst who is independent of the manufacturing department.

JUNKET POWDERS.
GLYCERINE EXTRACT
of RED BONE MARROW.
PEPSIN TABLETS.
PANCREATIN TABLETS.
ELIXIR OF ENZYMES.
THYROIDS.
ELIXIR THYROID.



ARMOUR & COMPANY LTD.,

QUEEN'S HOUSE, KINGSWAY,
LONDON, W.C. 2

Telep.: Holborn, 5900.

TRADE MARK™

THE MOST ECONOMICAL INFANTS' FOOD.

FRAME FOOD™

ON P.A.T.A. LIST.

SHOWCARDS FREE.

FRAME FOOD CO., Standen Road, Southfields, London.

LIQ. SANTAL FLAV.
C. BUCHU et CUBEBA

(Hewlett's)

Packed for dispensing only,
in 10, 22, 40 & 90 oz. bottles.

"Experience has shown this preparation to possess the same efficacy as Santal Oil itself. It mixes clear with water, and has a taste by no means disagreeable."

The Practitioner.

Introduced and Prepared only by C. J. HEWLETT & SON, Ltd., Wholesale Druggists, 35-42 Charlotte St., London, E.C. 2.

VIROPHOS

TRADE

Of proved utility in Nervous Diseases,
and a powerful Restorative for the
Digestive Organs and Nervous System.

A Valuable Tonic Food for Children.

"It is of high nutritive value en-
hanced by the presence of assimilable
phosphates."—*The Lancet*.

WHOLESALE PRICES.

No. 1.	1½ oz. Tin ..	9/- per doz.
" 2.	3½ "	14/6 "
" 3.	6½ "	24/- "
" 4.	12 "	42/- "

MIST. PEPSINÆ CO.
C. BISMUTHO

(Hewlett's)

Packed for dispensing only,
in 10, 22, 40 and 90 oz. bottles.

"Obviously likely to be of
much advantage in the fre-
quent cases of irritative
dyspepsia, with atony of
gastric or intestinal muscular layers."

British Medical Journal



GREAT REDUCTIONS!

BRITISH Saccharin Tablets

Full Strength, 0·3 gr., 550, Saccharin in each.
100's 200's 500's Per lb.
Card Boxes 10/- 21/- 52/- 60/-

Aspirin Tablets, gr. v, per 1000, 10/-; per lb., 12/-; in card
boxes—25's, 4/-; 50's, 8/-; 100's, bottles, 17/- doz.

Cascara Tablets, gr. ii, pearl-coated, per 1000, 5/-; in card
boxes—25's, 2/-; 50's, 8/-; 100's, 6/- per doz.

Formalin Tablets, contains 1-gr. Paraformaldehyde, per
lb., 8/-; in amber screw-cap bottles, 50's, 7/- per doz.

Bismuthated Magnesia Tablets, per lb., 8/-; in amber
screw-cap bottles, 50's, 7/- per doz.

Pine Tablets, 2/- per lb.

Sulphur Tablets with Cream of Tartar, 2/- per lb.

Boat-shape Feeding Bottles, each in box, complete with
transparent teat and valve, 7/- per doz.

4-oz Jars with celluloid Caps, 36/- per gross.

Paper, Double Demy, 22½ × 35, 36/- per ream.

— Nature Brown Cap, 18 × 28, 9/- per ream.

£3 value Carriage Paid. Cash with Order.

C. W. HARPER,
254 Stockport Road, Manchester.

Compressed Tablets, Fine & Heavy Chemicals, Druggists' Sundries,
Glass Bottles.

FAWCETT'S
Natural Process
BARLEY

Purely Barley, and
purely British, not a
patent or chemically-
treated food. Recom-
mended for delicate
digestions at all ages.
Sells on sight.

UNRESTRICTED



DISTRIBUTION.

FAWCETT'S. Barley Food Specialists
CASTLEFORD, YORKSHIRE

FOR INFANT FEEDING AND HOUSEHOLD USE

HOOKER'S DRIED MILK

(Full Cream)

Manufactured in Buckinghamshire under the most hygienic conditions. Containing all the ingredients of rich cows' milk in powder form. Well preserved and easily reconstituted.

In tins, retailing at **1/6, 3/- and 7/6** each.

*PRICES AND TERMS FROM—***THEW, HOOKER & GILBEY, LTD.***Manufacturers of Milk Products, BUCKINGHAM.*

Recommend it for Convalescence



Doctors prescribe Turtle Soup in all cases where the patient cannot retain any other nutriment.

FREEMANS

REAL TURTLE EXTRACT

is the real meat of selected West Indian Turtles, compressed into handy tablets ; it provides all the delicacy and nourishment of soup made from fresh killed turtles, and is quickly prepared as it requires nothing but boiling water.

For hospitals, nursing and convalescent homes it can be strongly recommended as the best, safest and handiest invigorator obtainable.

The trade terms are particularly favourable, and particulars can be obtained by writing to

The Watford Mfg. Co. Ltd.
Boreotoland, WATFORD



EXTRACT OF MEAT

(IN BULK).

DIRECT IMPORTER

FROM

AUSTRALIA, ARGENTINA, BRAZIL,
URUGUAY, &c.

IN VARIOUS QUALITIES.

I invite your Inquiries.

C. J. PIGGOTT,
PRODUCE IMPORTER,
19 EASTCHEAP, LONDON, E.C.3.

"Prana" SPARKLETS

"B" & "C" Bulbs
can now be sent
promptly on receipt
of order.

"C" Bulbs may be used
instead of "D" Bulbs without
any alteration to the Syphon.

PRICES.	Trade doz. boxes	Retail each
"C" Bulbs (box of 12) ...	33/-	3 6
"B" Bulbs " "	22/-	2 4

Aerators, Ltd., Edmonton, N. 18

From the Heart of the Malvern Hills.

BURROW'S MALVERN TABLE WATERS

—STILL AND SPARKLING—
have been proved by analysis time after time to be the purest table waters obtainable. The charm of these waters can be summed up in these two words—purity and softness. Those who are in the habit of drinking hard water full of lime, iron or chalk, would indeed be delighted if they knew they could obtain at a moderate cost, a perfectly pure soft water for daily use.

Full Particulars and Trade Terms from
W. & J. Burrow, Ltd., The Springs, Malvern,
Temporary London Offices: 5 Norfolk Mews,
Paddington.

Phone: Padd. 1810.

TO CREATE TRADE

stock lines that recommend themselves.

Trade Marks

Quencholeen

LEMONADE

QUENCHES THIRST.

A new Sparkling Drink with a delicious flavour of fresh Messina Lemons.

Quencholeen requires no sugar. Quencholeen will bring you customers and add to your reputation. Quencholeen pleases everybody and retails at 1d. per pkt., or in cartons of 13 pks. for 1/6.

Trade Terms.
13/- per doz. cartons, 5 doz. lots. 12/- per doz. net, together with showcards and window bills complete, cash with order. Carriage Paid.

Selling Agents for England and Ireland—
Messrs. Pattinson & Mackie, Ltd., Albion House, 59 New Oxford Street,
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The Violiv Manufacturing Co.,
26 Haymarket Terrace, Edinburgh.

VICTORY! PEACE!

This historic occasion will be celebrated on an extensive scale, and we take this opportunity of submitting a LIST OF WINES ready for immediate delivery :-

"Vin-i-ro"	(The Wine that strengthens)	42/- per doz. Bottles.	Retail 4/6
do.	23/- "	Half Bottles ..	2/6
Gold Seal Blood Wine (Wine of Iron)	42/- per doz. Bottles.	Retail 4/6	2/6
do.	23/- "	Half Bottles ..	2/6
Beef and Malt Wine (Made from fine old Douro Wine, 3/- duty)	52/- per doz. Bottles.	Retail 5/6	
Blackett and Maghalhaes 1896 Vintage Port	72/- per doz. Bottles.		
Fine Old Alto Douro Port (3/- duty)	66/- per doz. Bottles.		
do.	Full Bodied 65/- per doz. gross lots.		
D.R.O. (Dry Ripe Old) Tawny Wine (Produce of Portugal)	51/- per doz. Bottles.		
Moet & Chandon's Fine Champagne (White Star)	180/- per doz. Bottles.		
Mercier & Co.'s Special Curveé Champagne	168/- per doz. Bottles.		
do.	88/- .. Half Bottles.		
Fine Sparkling Saumur Mousseaux (Messrs. Grandin & Co.)	110/- per doz. Bottles.		
do.	60/- .. Half Bottles.		

All duty and carriage paid, net cash with order.

Haworth & Airey,
Wine Shippers. Bury, Lancs.

The Holoyd Page

THE BIG THREE

Here's your opportunity to turn in big profits on these three certain sellers. They are all produced to satisfy the needs of your customers in Summer-time, and we will *help* you sell them with attractive posters and showcards.

Holoyd Lemonade Powders

(No Sugar required.)

1½d. Packets	...	...	...	13/- per gross.
2½d. "	...	...	...	22/6 " "
4½d. "	...	...	...	40/- " "
5 gross lots less 5 %			10 gross lots less 10 %	

Holoyd Lemonade Tablets

(No Sugar required.)

7 tablets in glass tube, each tablet sufficient for one glass of delicious lemonade. Retail 6½d. per tube.
4/6 per doz. 6 doz. at 4/3. 12 doz. at 4/-

"Facena."

(A Vanishing Face Cream which really vanishes.)

Packed in 1-oz. screw-cap glass jars. Attractively labelled. Minimum retail, 9d.
5/- per doz. 6 doz. at 4/9. 12 doz. at 4/6.

H. O. LLOYD,
The Holoyd Laboratories,
Green Lane, Small Heath,
BIRMINGHAM.
London Depot :
3 Finsbury Square, E. C. 2

P.A.T.A.

CURACEA

REGD.

LIQUID NERVE TONIC

11/- per doz.—SELLS AT	1/3 ea.	Orders Executed per Return.
24/- " "	2/9 "	
45/- " "	5/- "	

2½% discount on 45/- parcels, cash with order. Attractive showcards and counter bills.
CURACEA CO., ELM GROVE, LONDON, S.E. 15.

PURE ORANGE WINE

A. MILLAR & CO., LTD., DUBLIN

(VINUM AURANTII B.P.) Prepared in strict accordance with the Formula of the British Pharmacopoeia. (Wholesale only)
 London Agent: JAMES STIRTON, 43 GREAT TOWER STREET, E.C.3.

ALL CHEMISTS
SHOULD STOCK **ABDINE**

THE GOLD MEDAL FRUIT DRINK.
 Quick Seller. Big Profits. Over 40 Years' Reputation.
 "ABDINE" is the most popular Health Drink. Superior to all Mineral
 Waters. Sold in Packets, 1½d. each; Boxes of 13 packets, 1/6.
 Wholesale Prices on application. Sample Box 1/-.

D. M'GLASHAN, M.P.S., Abdine Works, Westfield Road, EDINBURGH.

CHELTENE FOODS CO., CHELTENHAM.
DIABETES

FLOUR, BREAD, BISCUITS, FOOD, RUSKS, COCOA, Etc.
 Also Foods for Anæmic, Dyspeptic, Invalid and Aged People
 and Infants. Highly recommended by Medical Profession.
 INFANTS' FOODS packed under Chemists' "OWN NAMES."
Terms and all particulars on request.

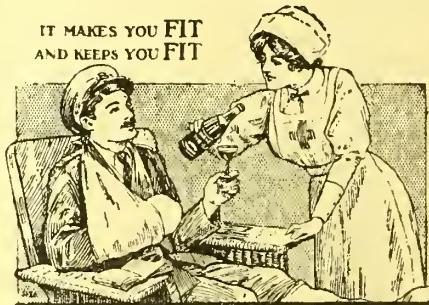


WINOX
WineFood
 is a high-class
 Pharmaceutical
 Wine, containing
 all the food
 elements of Meat, Malt
 and Unfermented
 Grape Juice.

Unsurpassable for Influenza; invaluable for Anæmia, Lassitude, Neuralgia, Nerve and kindred troubles.

Winox will stand any climate, and contains no harmful drugs.

Price 5/6 per bottle retail.
 Chemists who do not already stock Winox should apply for price to WINOX LTD., Richmond, Surrey.



The Value of "Vin-Sanguis"

is recognised by the private practitioner, the nurse and the Army doctor, as well as by the general public.

It is a blend of the choicest old mellow Wine with pure Meat Juice and Malt Extract.

Widely advertised and a ready seller: bearing a good profit to wholesaler and retailer.

Retailed at 2/8 and 5/- per bottle.

Write for particulars.

D^r HALE'S
VIN-SANGUIS
 WINE FOR THE BLOOD

TRANS-CONTINENTAL AGENCIES LTD.,

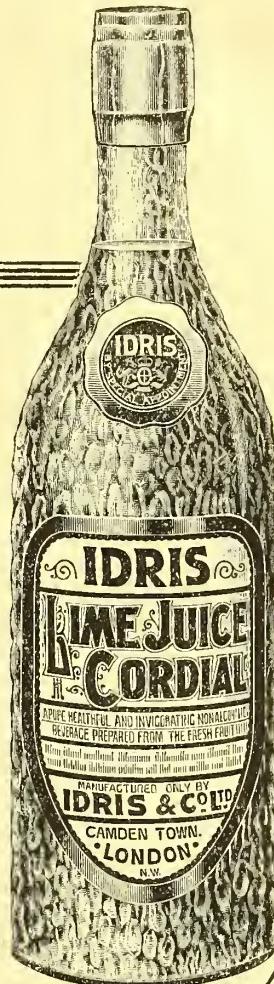
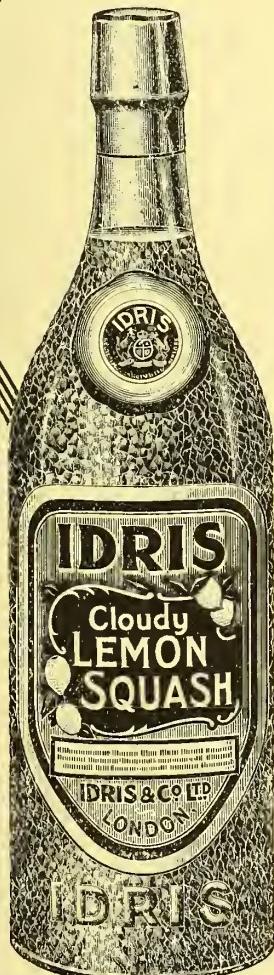
Proprietors of Dr. Hale's "Vin-Sanguis" Co.,
 444 Strand, London, W.C. 2.

Summer has come—

and with it the demand for a Cooling, Refreshing Beverage. If you are then ready to meet that demand—as you can be by stocking IDRIS Lemon Squash and IDRIS Lime Juice Cordial, pure, healthful, satisfying, attractively bottled—that, obviously will be to your financial advantage. Our advertising campaign will make sales easy ; the name IDRIS guarantees the quality.

1919 Terms, etc., await your request.

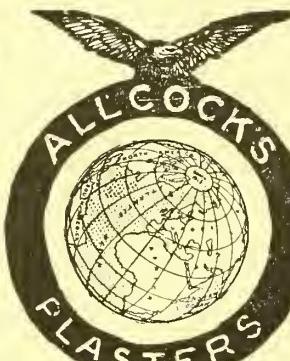
*Communications to the
Sales Manager, Dept. T.2,
IDRIS & CO., Ltd.,
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ESTABLISHED 1847.

**Allcock's
PLASTERS**

A REMEDY OF 70 YEARS' STANDING.

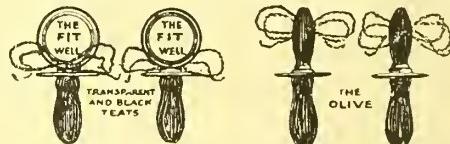
Allcock's Plasters**Allcock's Corn and
Bunion Plasters****Brandreth's Pills***The
Three
Reliables.**"Sold all round the World."*Prices and Terms
on
application toALLCOCK - - -
MANUFACTURING
COMPANY - - -
22, Hamilton Sq.,
Birkenhead,
England.**WHOLESALE****ONLY. MANUFACTURERS OF 1901****Surgical Dressings,****Absorbent Lints, Bandages,****Cotton Wools, Gauzes, &c.**

Samples and prices on application.

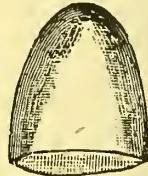
VERNON & CO., Ltd., Penwortham Mills PRESTON.

Also 9 Fore Street Avenue, LONDON, E.C.

Branch Works: Waterford Mills, Heap Bridge, BURY.

**THE LONDON "FIT WELL"
BABY COMFORTER****WHOLESALE & EXPORT ONLY. SHIPPERS SUPPLIED.**Manufactured by **EPHRAIM WOOLF,**
30 PRIORY AVENUE, WALTHAMSTOW.

Works:—633 FOREST ROAD, WALTHAMSTOW, LONDON.

Please Write for Samples, Post Free.
RUBBER TEATS, BONE SHIELDS, Etc., SUPPLIED SEPARATELY.**RENDELL'S
SOLUBLE QUININE PESSARIES.**

THE WORLD-WIDE REPUTATION that these Pessaries have obtained since their invention by W. J. Rendell in 1885 has induced unscrupulous persons to place upon the market worthless and injurious compounds, with colourable imitations of W. J. Rendell's labels. To distinguish the genuine Pessaries from these fraudulent concoctions, see that the Registered Trade Mark and Number, in **RED INK**, are upon each box thus:

Registered
Trade Mark, without which
none are genuine.
No. 182,688.

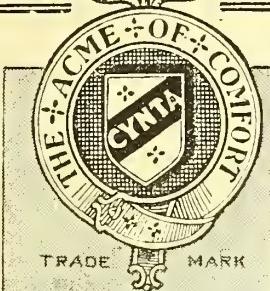
W. J. Rendell
No. 182,688

Registered also in Australia, India, The Cape, The Argentine, Germany, &c.

IMPORTANT NOTICE AND CAUTION.

Several injunctions in the High Court of Justice having already been obtained (reports of which have appeared in "THE CHEMIST AND DRUGGIST"), W. J. RENDELL'S SOLICITORS are instructed to take proceedings against all persons (Makers or Vendors) fraudulently using the name of "W. J. RENDELL," "RENDELL," or any colourable imitation thereof in connection with Pessaries NOT manufactured by

W. J. RENDELL,
INVENTOR AND SOLE MAKER,
15 CHADWELL STREET, CLERKENWELL, LONDON, E.C.



Antiseptic.

Absorbent.

⁶⁰ CYNTA ⁹⁹

Registered

HYGIENIC TOWELINES

FOR LADIES

SEAMLESS KNITTED

ELASTIC COVER

NON-STRETCHING

WOVEN COVER

(BLUE LABEL)



OR

(BROWN LABEL)

GUARANTEED ENGLISH MANUFACTURE THROUGHOUT

Approved and recommended by the Medical Faculty

STOCK IN LONDON

For the convenience of our customers, arrangements are being completed whereby all those within 25 miles radius can draw their supplies from our warehouse at

151-157 Goswell Road, E.C.1.

Phone : Central 3326. Telegrams : "Undisputed, Isling, London."

Your orders and inquiries will receive the best attention of our London Manager.

THE CYNTA MANUFACTURING. COMPY.
St. THOMAS' PLACE, STOCKPORT.

ALL WHO SEEK A LINE OF
EXTRA QUALITY, FINEST VALUE AND BEST BUSINESS

CAN FIND EXACTLY WHAT
THEY ARE LOOKING FOR
IN THE FAR-FAMED



It will pay you to write us and get our full details, Prices and Samples. No matter whether you are Sundriesman, Shipper, Wholesaler, Retailer or maker-up of Baby Soothers or Feeding Bottles, this line is full of merits that will bring you most satisfactory Trade.

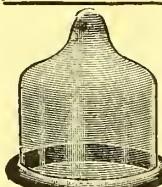
Teats made from highest grade Ceylon Rubber, toughest, most supple, transparent and durable.

ALWAYS GROWING IN DEMAND BECAUSE
MOST HYGIENIC, BEST FOR BABY'S HEALTH,
EASIEST TO CLEAN AND STERILISE, BEST
UNDER ALL TESTS, INCLUDING BOILING,
STAND ALL CLIMATES, BEST FOR BOTH
HOME AND EXPORT TRADE.

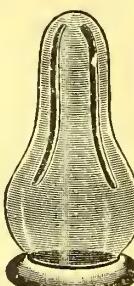
OYLERS

SEAMLESS RUBBER
TRANSPARENT TEATS

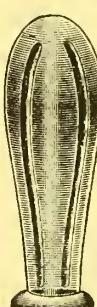
Here is a small
selection from
our great variety



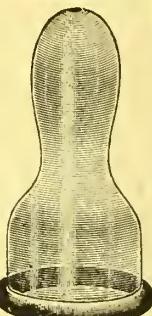
No. 45.



No. 50 R.



No. 4 R.



No. 90.

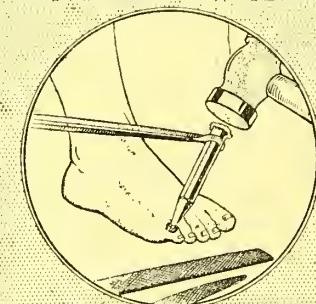
OYLERS Ltd

35 New Cavendish St., Harley St., LONDON, W. 1.

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Wire: "OYLERS, WESDO, LONDON."

DON'T USE THESE
TO SHIFT THAT CORN



USE DR. WILSON'S
"Moovit"
CORN
PENCIL
JUST A RUB THAT'S ALL

Price 1 3 on P.A.T.A.

Extensively advertised.

ATTRACTIVE SHOW BILLS. DISPLAY
BOXES. WINDOW STREAMERS.

Obtainable through all Wholesalers.

TALBOT WILSON, 20 HIGHGATE ROAD, LONDON, N.W. 5

India Rubber Corks & Tubing

For the Chemical Trade.

SUPPLIED IN
ALL SIZES AND QUALITIES
GREY or RED.

Your inquiries solicited, upon receipt of
which samples and prices will be submitted.

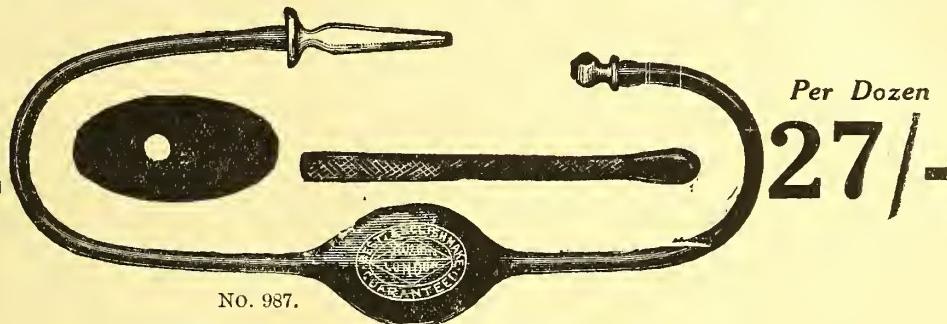
GARDEN CITY RUBBER CO.
LETCHWORTH, Herts.

Telephone:
Letchworth 54.

Telegrams:
"Rubber Letchworth."

SEAMLESS ENEMAS.

Per Dozen

27/-

No. 987.

Per Dozen

27/-

GUARANTEED FOR 2 YEARS.

No. 987.—The "B.E.M."	(best English make)	with bone rectal pipe, etc.,	s. d.
"	"	complete in superior card box,	27 0
"	"	in leatherette dome-top case	30 0
"	"	extra stout ball and tubes	33 0
No. 988.—The "Empire,"	black polished,	complete in card box	26 0
"	"	in oval leatherette case	29 0

We are the right House for BRITISH-MADE GOODS—Anti-Rheumatic Rings, Bandages, Bathing Caps, Belts, Catheters, Combs, Enemas, Elastic Hosiery, Hot Water Bottles, Splints, Sponge Bags, Trusses, Water and Air Beds, Water and Air Cushions, Waterproof Sheetings, and every description of Rubber Goods.

ILLUSTRATED PRICE LIST POST FREE.

OUR GOODS ARE RIGHT.

MONEY BACK IF NOT SATISFIED.

BURGE, WARREN & RIDGLEY, LTD.,
91 & 92 GREAT SAFFRON HILL, LONDON, E.C.1.

Just Arrived.

A Limited Consignment of

THE

"PORTIA"

(Regd.)

NET WEIGHT

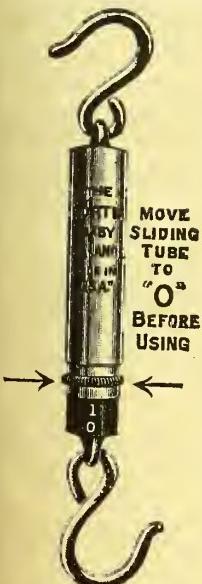
Baby Balance

Weighs up to 15 lb.

Price

30/-
dozen.

Retail

3/6
each.

Owing to restricted imports this line has been off the market for some time, and we think that many friends will be glad of the opportunity of renewing their stock.

SOLPORT BROS., Ltd.

184 to 190 Goswell Rd., London, E.C.1.

Obtainable through all Wholesale Houses.

Ladies' Vanity Cases

(Metal), with Puff & Mirror.

OXYDISED and GILT:

9/- 12/-

15/6 18/-

& 24/6 doz.

Very saleable during the holidays.

Bathing-Caps, Sponge Bags, Water-Wings & Xylonite Soap Cases.

THOS. SWALESDruggists' Sundryman,
24 BUTTS COURT, & 89 ALBION STREET,
LEEDS.

FREDK. FINK & CO.,

10 & 11 MINCING LANE, LONDON, E.C.

SPECIALITIES.—Gums Arabic and Tragacanth as imported or finely powdered.**DENTAL GOODS.**

Flasks, full size, 8/- each; Brushes, 9/- doz.; Files, 12/- doz.; 22 ct. gold facings, canines, flat-top, 4/- doz.; 22/6 ct. doz.; Heart-shape Suctions, 8/- gross; Wax, 2/- 6 lb., in 7 lb. boxes; Compress Stents, 3/- lb., in 3-lb. lots; Needles, 4/- box; Articulators, 6/- ea.; Impression Trays, 2/- doz.; Part Rubber Suction complete with Alum Stud, 3/- doz.; Rubber Bowls, 5/- each.

Terms: Cash with Order, Banker's District Bank.
Wanted, Dental Alloy Scrap, £4 oz. paid; 10d. paid for old platinum
ARTHUR LEWES, Dental Depot & M/f., [in teeth.
71 Lancaster Avenue, MANCHESTER.

TINORI PAINLESS CORN CURE

is a tried and guaranteed remedy.

P.A.T.A. 1/3. FROM ALL WHOLESALERS.

E. MAC SWEENEY, Manufg. Chemist, CORK.

**CACHETS "FINOT"**

(White or Coloured),
With Inscriptions in any desired tint; also Plain or Embossed.
"Beautifully made and the inscriptions give them a distinction all their own." C. & D.
"Perfection of Cachets." — Lancet.

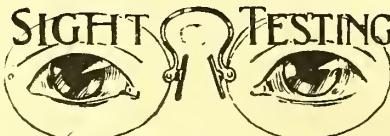
These Cachets are especially adapted for Headache, Neuralgia and other powders.
COOPER, SON & CO., Ltd., 80 Gloucester Road, SOUTH KENSINGTON.
In 17 sizes, to fit the various types of Cachet Machines.

Precipitated Chalk, Hyposulphite of Soda, Sulphite of Soda, Glauber Salts, Epsom Salts, Salts of Tartar, Alum, Sulphite of Lime, Sulphide of Sodium.

E. BRAMWELL & SON, Ltd., ST. HELENS, Lancs.

ROYAL COURT HAIR DYES

Notwithstanding the shortage of supplies, we are still in a position to supply all orders and guarantee our preparation to be exactly the same as pre-war recipes. Own-named brands a speciality. Largest profit, and most reliable Hair Dye yet produced.
J. KNOX WALKER & Co. Ltd., 422 Kingsland Rd., London, E. 8.



R. 302. 3/6

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Use blocks similar to the one shown above and you will get more clients in your Testing Rooms.

Write to-day for a selection of illustrations suitable for Chemists' or Opticians' Adverts, and particulars of Free Type & Border Suggestion CHEMISTS' DESIGN SERVICE,
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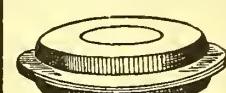
Lightest and Whitest, also Purest Dense.

APPLY TO
AUG. LEVERMORE & CO. Ltd., 8-10 CT. ST. HELENS,
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Telegrams: "LEVERMORE LONDON." Telephone: 4613 Central.

**SHADEINE FOR COLOURING GREY HAIR**

This popular article is largely advertised and stocked by all Wholesale Houses
Trial size 8d., per post 10d. Medium, 1/4, per post 1/-; Large, 3/-, per post 4/-;
8d. size 8/-doz.; 1/4 size 12/-doz. 3/-size, 33/-doz.

THE SHADEINE CO., 58 WESTBOURNE GROVE, LONDON, W.

CACHETSWEPS
*The Best Quality.***WEST-END PHARMACY SUPPLY**

(R. Rios)

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Cachets. All sizes, plain and embossed.
Orders accepted for coloured & printed**BLENOSAN CAPSULES**

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Medicinal Capsules, Fine Chemicals.

**John E. Raworth & Moss,
Chartered Patent Agents.**The Old Mansion House,
73 Cheapside, E.C.2.AND Queen Anne's Chambers,
Westminster, S.W.1.**PUFFS of ALL KINDS in DOWN and WOOL.****SOLID FACE POWDERS**

COMPLETE WITH PUFFS.

Inquiries invited by makers.

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BLACK BULL WORKS,
Caledonian Market, LONDON, N.7.**Quin Quenna**

BETTER THAN A SHAMPOO
More heavily advertised than ever, and sales still easier,
now recognised by ladies &c. that it is the only preparation
that puts a "wave" in the Hair, besides growing
and beautifying it.

4/- PER DOZ. A 6 dozen decorated carton with
one dozen Bonus to your address
at once Carriage Paid
P.A.T.A. EACH 6/-

CHRISTY'S Old Swan Lane, LONDON, E.C.4.

43%
P.A.T.A. PROFIT
FOR YOU

STICKY FLYCATCHERS

Bands and Tapes.

"FLYSAC."

"VIPER."

"VAMPIRE."

"BIG BAT" FLYPAPERS.**"CHESHIRE" and "DAK" Birdlimes.**

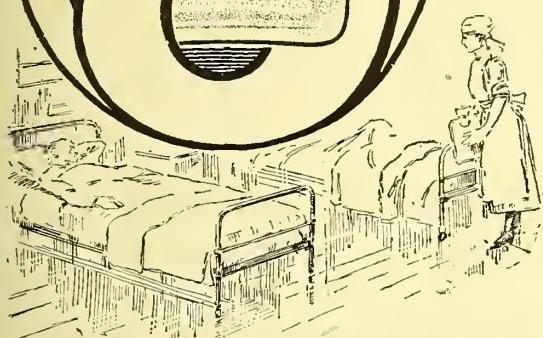
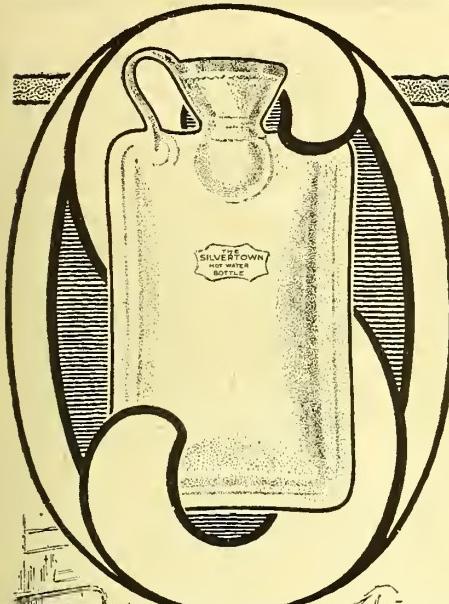
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"ORBITE" Banding Material.

For Fruit Trees.

SOLE MAKERS—

Kay Brothers Limited, Stockport.



'Silvertown Quality' in Hot Water Bottles

For many years we have made a speciality of Hot Water Bottles, and have acquired a high reputation for this class of goods.

Made in the usual standard sizes. We invite your inquiries. Customer's name lettered free on all bottles when not less than three dozen assorted sizes are ordered at the same time.

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The India Rubber, Gutta Percha & Telegraph Works Co.
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HOME—Belfast, Birmingham, Bradford, Bristol, Cardiff, Dublin, Glasgow, Liverpool, London, Manchester, Newcastle-on-Tyne, Portsmouth, Sheffield.

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"NORVIC" CREPE BANDAGE

(Regd.)

SUPERIOR ENGLISH MANUFACTURE. FAST WOVEN EDGES

Extremely Elastic, but contains no Rubber.

Invaluable for binding. Displaces rubber and elastic web. More durable and one-third the cost. The Norwich Crepe Bandages, containing wool, will provide warmth, and do not absorb grease readily. Self-clinging and self-adjusting. Perfectly cleansed, sterilised, and resiliency entirely restored by washing in hot soft water (with addition of a little soap). The edges will not fray out nor ravel. Made and supplied to the leading wholesale houses, neatly wrapped in labelled packages. Recommended by the medical and nursing professions. Send for prices and samples to the sole manufacturers—

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Provincial Selling Agents, **FRESE & MOON, LTD.**, 59 Berners Street, London, S.E.1.

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Buy direct from the Manufacturer.

The

Bouverie Seamless Rubber Works

GLOVES, TEATS, SOOTHERS
and every description of seamless goods.

Inquiries invited.

Samples gladly submitted.

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STOKE NEWINGTON, N.

GOOD SELLING LINES, GOOD PROFITS,
AND ABSOLUTE SAFETY IN STOCKING

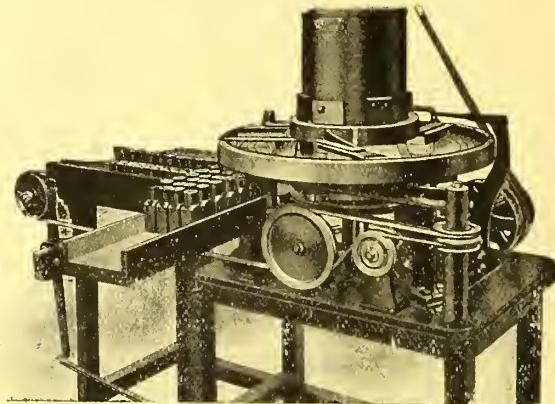
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STOCK IS RETURNABLE AT ANY TIME, FOR
ANY REASON, AND FULL PRICE REPAYED.

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HOBSON, TRIMBLE & CO., LTD.
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THE FORGROVE COUNTING
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Forgrove Machinery Company, Limited

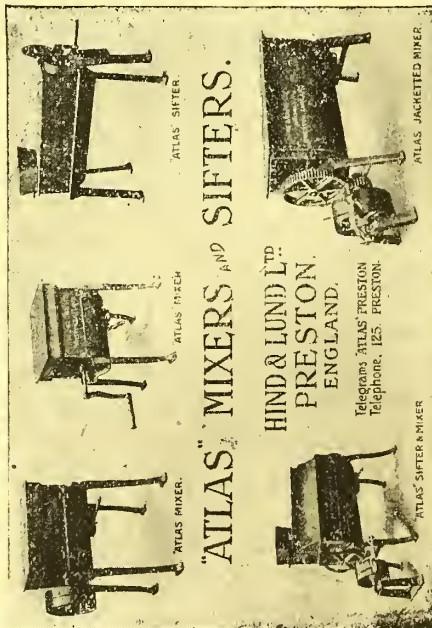
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'ATLAS' MODERN CHEMICAL MACHINERY



"ATLAS" MIXERS AND SIFTERS.

HIND & LUND LTD.

Preston,
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Telephone: ATLAS, 125. Preston:
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ATLAS MIXER.
ATLAS SIFTER.

See our previous advertisements.

BRITISH MADE THOROUGHOUT.

CHIMICAL & EXPLOSIVES FACTORIES COMPLETELY FITTED WITH MODERN MACHINERY. (2)

NICKELLED ZINC
TUBE CLIPS

THE MANUFACTURERS ARE

NAPPER & DAVENPORT
7-11 ST. GEORGE'S PLACE
BIRMINGHAM

QUICK DELIVERY OF ALL SIZES.
QUANTITY LINES SPECIALLY LETTERED IF REQUIRED

TO MANUFACTURING AND WHOLESALE DRUGGISTS, &c.

We beg to call attention to the fact that our well known Patent Stills are made for heating by steam pressure. Where this is available it forms a very cheap and efficient method of obtaining distilled water. Any number of stills can be supplied to order. Made in various sizes to produce from 1½ to 15 gallons PER HOUR. Cost of distilled water made this way is practically nil. As with our Gas Stills, these are perfectly automatic.

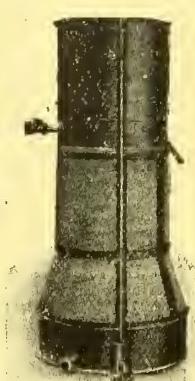
For producing up to
1½ gallons per hour, 9 gallons per hour,
6 " " " 15 "

Please Enquire for Quotation.

The few most important places we give below afford evidence of the quality, efficiency and economy of the Steam Stills. National Physical Laboratory, 2 Queen's Gate; Imperial College of Science, 8 in use; University of Wales; Pharmaceutical Society; Guy's Hospital Bacteriological Department; and many of the leading Breweries and Drug Houses etc. etc.

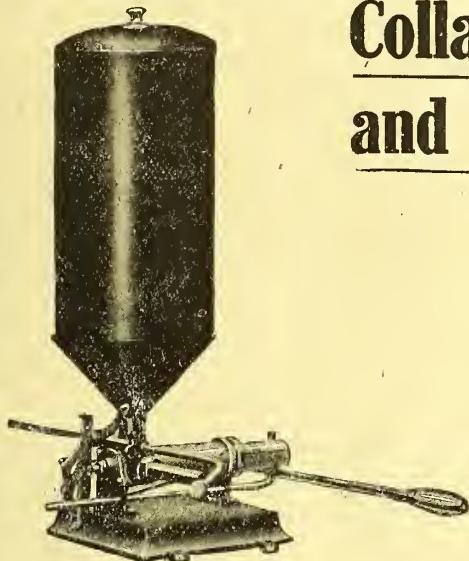
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Estimates submitted free if required
for supplying and fitting complete



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Collapsible Tube Filling and Closing Machines

MADE IN ENGLAND.

STRONG, SIMPLE, RELIABLE,
EASY TO WORK.

Made in capacities of
2, 5, 10 & 20 gallons.

Inquiries Solicited.

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THE BANISTER STREET WORKS,
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RAYOLENE BLACK JAPAN

The best preparation for Fire Ranges, Cycles, Mail
Carts, Gas Stoves, &c., exactly as supplied to Coach
and Carriage Painters. Free from methylated spirits.

9d. tins.	$\frac{1}{2}$ pints.	Pints.	
Retail Prices	9d.	1/6	2/9

Wholesale -	6/6	12/6	24/- per dozen
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One box, containing 8 dozen 9d. size, or 4 dozen 9d.
and 2 dozen 1/6 sizes, sent carriage paid for 48/-

RAYOLENE Oil Varnish Stains

Brilliant, durable, and easy to apply. The popular
shades are: Oak, Walnut and Mahogany.

9d. tins.	$\frac{1}{2}$ pints.	Pints.	
Retail Prices	9d.	1/8	3/-

Wholesale -	6/6	13/6	26/- per dozen
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One box, containing 4 dozen 9d. and 2 dozen 1/6 size (all
one shade or assorted) sent carriage paid for 50/- nett.
3 boxes less 5 % discount.

TEXALO MANUFACTURING CO.

Manufacturers of

PAINTS, VARNISHES, WATER PAINTS, DISTEMPERS, &c. &c.
SOUTH SHORE, BLACKPOOL, LANCS.

Write for Complete Price Lists.

The Drummer Sounds the Roll-call to Success



DRUMMER DYES

"We have a mania for dyeing things at
our house. It is so simple with Drummers,
and doesn't it just *Save!*"
So Drummers are bought regularly by
numberless girls and women : Drummers
in all Colours, Drummers destined to mix
to all shades.

DRUMMER DYES

*One Dye for all Fabrics—
So Easy to Use.*



Does this dyeing fascination mean
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for Drummer Dyes to-day to the
Sole Makers—

Wm. Edge & Sons Ltd.
Bolton.

And at 25 Front St. East, Toronto, &
15 Valentine St., New Bedford, Mass.,
U.S.A.

JULY 19, 1919



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PERFUMES,
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KALIS, CARBOYS

WHOLESALE ONLY—PROMPT DELIVERY.

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Manufacturers and Wholesale Suppliers of everything for the Garden, Allotment and Greenhouse, such as "Abol," "Vaporite," Twines, Sticks, Labels, Clays, Nicoticide, etc.

Insecticides and
all Horticultural
Specialities and
Sundries.

A PROFITABLE PROPOSITION.

"FLUZO" POWDERS

(Trade Mark, Registered).

For Headache, Toothache, Neuralgia, and Rheumatism.
Sold at 1/3 per box of 12 powders, or loose at 2d. each;

two for 3d.

Advertising matter with all orders. Send Bonus for Window Shows.

Send for Price List and Particulars.

A. S. PRICE & CO., LTD., Blackheath, Birmingham.

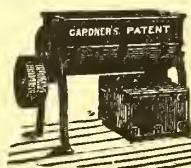
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OVER 5,300 working in
almost every Trade where
POWDERS are Sifted and
Mixed and Lumps Re-
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one operation and without
loss by dust.

FOR HAND OR POWER.

CATALOGUES FREE.

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FLY GUM

For Fly Papers and Reels.

Guaranteed to retain its stickiness
TWO OR MORE SEASONS.

Prepared by
E. H. WRIGGLESWORTH,
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IMMEDIATE DELIVERY**GATES'
BOTTLE
CAPPING
SKINS**

ALSO GOLDBEATER'S SKIN FOR MEDICAL PURPOSES.

**SNOW-WHITE OPAQUE
ROLLED SKINS.**

SOMETHING QUITE NEW. These Skins are damp and READY FOR USE. The raw material for Baudruche manufacture being now unobtainable, I have put this new production on the market in its place. ABSOLUTELY AS OPAQUE as Split skins and equal in appearance.

"Mine beat all others."

*Sole Pioneer and Only
English Manufacturer :*

**LESLIE GATES
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Another New Speciality.—Try my
TRANSPARENT SHEEP BAUDRUCE
CAPPING SKINS.



THE CHEAPEST & MOST EFFECTIVE CAPPING EVER PRODUCED.



What we all Desire

PEACE, prosperity and plenty—these are the aspirations of every one of us to-day.

Peace in the home—a reasonable degree of comfort and leisure, with freedom from domestic labour worries ; prosperity in the industrial world—increased output, with better living and working conditions for the men and women employed ; and plenty in field, farm and garden—a land where rationing and soaring food prices are nothing but an evil dream.

And the way to that great goal ?

One signpost pointing along it is inscribed "Scientific Coal Conservation"—that is, the distillation of raw coal in the country's gas-works.

The use of gas means—in the home, increased comfort, convenience and fuel economy, with the abolition of much of the most unpleasant domestic drudgery ; in the industrial world, the introduction of improved machinery, a higher rate and quality of output per hand employed, less labour, greater cleanliness, better hygienic conditions—and a never failing supply of those constituents of coal, lost when it is burned in its crude form, which are essential to industry ; and on the land, record harvests largely brought about by the more general use of sulphate of ammonia, the valuable fertiliser recovered in the process of gas making.

Therefore, for the sake of peace, prosperity and plenty—and to lessen the drain on our fast diminishing coal reserves—use gas wherever possible and urge others to follow your example.

Further information can be obtained from the Secretary—

**THE BRITISH COMMERCIAL
GAS ASSOCIATION**

xviii 47 Victoria Street, Westminster, S.W.1

"CORRUGATED" ROLLS AND BOXES (Collapsible)

COMPLETE PACKING SCHEMES.

Be wise and secure your packing arrangements for some months ahead. The demand is greatly outstripping supplies. Do not wait, send a sample of goods you pack to-day and we will quote you with sample packing.

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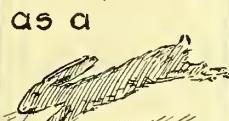
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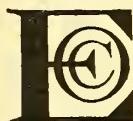
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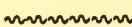
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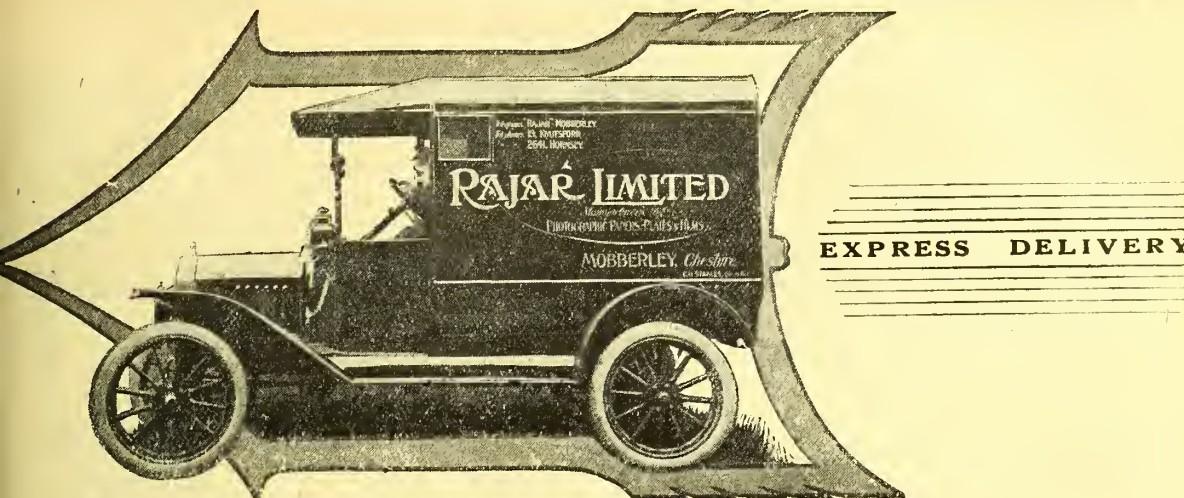
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THE CHEMIST AND DRUGGIST



SUPPLEMENT

42 CANNON ST.
LONDON, E.C.4.

JULY 19, 1919

This Supplement is inserted in every copy of The Chemist & Druggist

THE SUPPLY OF SUPPLEMENTS.

The clerical work in connection with the posting of spare copies of the Coloured Supplement week by week has increased to such an extent that we have been compelled to reorganise our system of distribution. Our readers will please note therefore that, in future, instructions can be accepted for not more than six weekly copies of the Supplement at a time, and that in every case

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EARLIER CLOSING FOR PRESS. Will advertisers please note that until further notice it will be necessary that Advertisements intended for the Supplement must reach us not later than the **FIRST POST THURSDAY MORNING.**

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FOLKESTONE.—Qualified Assistant wanted, married preferred, for high-class Dispensing business; rooms provided on premises; rent and rates free. Apply, with full particulars, to J. W. Stainer, Pharmaceutical Chemist, Sandgate Road, Folkestone.

GREAT NORTHERN CENTRAL HOSPITAL, HOLLOWAY ROAD, LONDON, N. 7.—Required, a Locum Hospital Pharmacist for four weeks from 4th to 30th August inclusive; hours 9.30 a.m. to 6 p.m., Saturdays 9.30 a.m. to 2 p.m., no Sunday duty. Apply, stating qualifications, etc., and salary required, to the Secretary at the Hospital.

LIVERPOOL.—Qualified Manager required end of month in good-class Dispensing business; buying experience essential. Applications, stating age, experience, salary, etc., to 25 Moscow Drive, Stoneycroft, Liverpool.

LONDON.—Wanted, qualified Assistant (at once) for Retail and Dispensing business. Apply, stating particulars as to age and salary required, to "A. B." (260/150), Office of this Paper.

LONDON, N.—Junior wanted, just finished apprenticeship preferred, for Light Retail and Dispensing; hours 9 to 7.30, half-day weekly, no Sunday duty. State age, experience, salary required (outdoors), and enclose photo, to Starmer, Chemist, North Finchley.

LONDON, W.—Junior Assistant wanted immediately (outdoors); one just out of his apprenticeship would suit; two other Assistants kept; hours 8.30 a.m. to 7 p.m. Apply, stating salary required and usual particulars, to "M." (223/36), Office of this Paper.

LONDON, W.—A qualified Dispenser. Apply by letter, stating age, experience, and salary required. Squire & Sons, Ltd., 413 Oxford Street, London.

LONDON, W.C.—Several Juniors wanted; capable, and willing to be useful all round; good-class experience; neatness, good handwriting, and sense of order essential; permanency; outdoors; good progressive salary. Apply, with full particulars, to Cofman's Pharmacy, 6 Bloomsbury Street, W.C. 1.

MANCHESTER.—Qualified man wanted (immediately), for General Retail and Dispensing Business. Apply, with full particulars, references, etc., to 258/35, Office of this Paper.

SHANKLIN.—Wanted, July 31, Junior Assistant, for August or until former Assistant demobilised; must be reliable Dispenser and accustomed to good-class trade; easy hours. Ashfield, Pharmaceutical Chemist, Shanklin.

SHREWSBURY.—Assistant, outdoors, for brisk Cash business; short hours; no Sunday duty; please give full particulars of experience, age, height, and salary required in first letter. Apply A. Williams, M.P.S., Chemist, Shrewsbury.

WEST END.—Young, energetic, experienced Assistant required (immediately) in first-class West-End Dispensing Business; congenial situation. Apply, with full particulars, to "B. S." (224/590), Office of this Paper.

ASSISTANT required; capable of taking charge; easy hours; must produce undeniable references. State salary required (outdoors), T. A. Morgan, Chemist, Hampstead Road, N.W. 1.

ASSISTANT, unqualified, required for a good-class Dispensing and Counter business, Liverpool; must be gentlemanly and tactful; every consideration shown to suitable applicant. Kindly state age, experience, and salary required, 259/7, Office of this Paper.

AT once, qualified Manager for branch (outdoors); salary and commission; energetic, young man, with knowledge of Photo trade. Hargreaves & Co., Gloucester.

COUNTERMAN, Unqualified, for West-End Pharmacy; hours 9 to 8, weekly half-holiday; knowledge of French an advantage. Write, with full particulars and salary required, to Box 89, c/o Mather & Crowther, Ltd., 10/13, New Bridge Street, E.C. 4.

DISPENSER, lady; qualified. Apply, stating age, experience, salary expected, and when disengaged, to the Secretary, The Sheffield Royal Hospital.

DISPENSER required in a good-class Suburban business; easy hours. Apply, with usual particulars as to salary required, and reference, etc., Newton Wright, Chemist, Ilford.

EVENINGS; part-time Assistant required in West-End Dispensing business; immediate. Apply, with full particulars, to 224/59, Office of this Paper.

JUNIOR wanted in high-class Retail; good experience in Dispensing and Photography to be had; pleasant, healthy district. Full particulars in first letter to M. H. Roots, Pharmacist, Westgate-on-Sea.

JUNIOR Assistant (male) required about August 9th for Light Retail and Dispensing business. State salary required and full particulars to Leo Benjamin, 57 Cold Bath Road, Harrogate.

JUNIOR Assistant (male) required about end of August; good Retail and Dispensing experience essential. Apply, with full particulars, stating salary required (outdoors), to Gould & Co., 23 North Audley Street, London, W.

JUNIOR or Improver (outdoors); short hours, no Sunday duty; good opportunity to gain Retail and Dispensing experience; state age, experience, and salary required, with photo if possible. Hatfield & Son, Limehouse, London.

DOCUM required for two weeks from August 11th; good Dispenser essential. Hargreaves & Co., 90 Northgate, Gloucester.

DOCUM; Lady wanted for Dispensing; August 15 to September 15, inclusive; mornings and evenings; no Sunday duty. Apply, Dispenser, 68 Plough Road, Battersea, S.W.

DOCUM; state salary required (outdoors) and give references; also state age. 260/29, Office of this Paper.

MANAGER, qualified, experienced, active, and energetic, wanted for new business in high-class seaside resort in Eastern Counties; Photography and Optics an advantage; salary £5 per week and prospects; house can be obtained; permanency for good and reliable man. Fullest particulars and names of references to 257/6, Office of this Paper.

MANAGER (qualified) required in about one week's time for easily worked branch in Sheffield; good comfortable berth. State salary required and usual particulars to A. R. Powell, 125 Upwell Street, Sheffield.

MESSRS. TIMOTHY WHITE CO., LTD., Chemists, Portsmouth require a capable Pharmacist; easy hours; good and progressive salary, with excellent prospects; free removal.

QUALIFIED Assistant wanted for a few weeks. Please state salary required and usual particulars to A. B. Higgs, Pharmacist, Horley, Surrey.

QUALIFIED Chemist, to manage branch where there is some Insurance Dispensing; good-class Cash business; easy hours no Sunday or night duty. Applicants must state full particular of experience, age, and salary required, to Martyn's Stores, Ltd., 26 Queen Street, Wolverhampton.

QUALIFIED Manager wanted for country business; active elderly man preferred; good salary; permanency. F. T. Munton, 59 High Street, Winsford, Cheshire.

QUALIFIED Locum wanted, from August 9 to August 23, for country business; easy hours; Junior kept. Apply, with recent references, terms, etc. (outdoors), to R. B. Sandilands, Leominster, Herefordshire.

QUALIFIED Man wanted, to manage business for widow in healthy village; suit elderly man or one disabled in w and requires quiet life. 258/21, Office of this Paper.

QUALIFIED Assistant, for West-End Pharmacy; hours 1.30 p.m. to 11 p.m., one evening weekly free from 5 p.m., and every other Sunday; Sunday duty from 5 p.m. only; commencing salary £4 5s. per week. Write, with full particulars, to Box 88, c/o Mather & Crowther, Ltd., 10/13 New Bridge Street, E.C. 4.

QUALIFIED Assistant wanted for Dispensing. Usual particulars, Sells, Chemist, Tunbridge Wells.

REQUIRED, in about a month's time, a qualified Manager for a Mixed Retail business in the neighbourhood of Manchester; advantageous terms offered to take full control of the business, buying, etc., and taking full charge of the general management. Apply, giving references and salary asked, to Thos. Tomlinson & Son, 45a Market Street, Manchester.

THOROUGHLY qualified Dispenser required for good-class business; one capable of taking entire charge of department preferred; no Sunday work, close at 6, Wednesdays at 1; qualified Locum also required. Write fullest particulars to Junior Army and Navy Stores, Ltd., York House, Aldershot.

UNQUALIFIED Assistant required, outdoors; one with good knowledge of Dispensing. W. K. Somerton, 357 Battersea Park Road, S.W. 11.

WANTED, reliable Assistant, unqualified, 25 to 30 years of age, with some West-End experience. Apply the Manager, Heppell's, 78 Strand, W.C.

WANTED, up-to-date, enterprising, qualified Manager; good Counter manner and smart Salesmanship essential; must be able to produce attractive Counter and Window displays; knowledge of Optics and Surgical. Full particulars of experience and salary required in first letter to 255/21, Office of this Paper.

WANTED, early in September, competent Junior Assistant (male) for good-class Dispensing business (indoors); no N.H.I. work. Please send full particulars of salary required, etc., to Beetham & Clark, Promenade, Cheltenham.

WANTED, capable Assistant; unqualified; good shop experience necessary; give full particulars as to references and state salary required. Apply Moores (Chemists), Ltd., Freeman Street, Grimsby.

WANTED, Manager for Retail establishment for first-class firm; unexceptional references required. Apply, stating full particulars as to age, experience, and salary required, 225/48, Office of this Paper.

WANTED (immediately), elderly or senior qualified Chemist; good birth for an energetic man with good references; state salary and enclose photo if possible. Apply to "Business" (260/5), Office of this Paper.

WANTED, qualified Manager, reliable, in City Pharmacy; mostly Dispensing. Apply 260/33, Office of this Paper.

YOUNG lady for Fancy and Perfumery Department in high-class Hairdresser's establishment; give age and terms. Chamblain, 79 High Street, Maidenhead.

WHOLESALE.

4s. 6d. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

LONDON Export Druggists require Foreman to take charge of Dry Goods department and eight to ten counter hands; must have good trade experience, Wholesale or Retail, and capable of controlling others; salary 70s. to 75s. per week. 225/37, Office of this Paper.

S. WALES.—A Representative having a good connection with Doctors and chemists in Bristol and S. Wales districts wanted it once; good salary and prospects to the right man, who must be willing to reside in Bristol. State terms and experience to Box 225/35, Office of this Paper.

THERE IS A VACANCY

on the publishing staff of

THE CHEMIST AND DRUGGIST

for an Assistant with an all-round knowledge of the Drug trade. He must be young, possessed of business instinct, have experience of modern methods, and be capable of dealing with commercial correspondence. Preference would be given to a registered Chemist and to a man who has served in the war. Applicants should give full particulars (by letter only) of their qualifications, stating salary required, to M. B., 42 Cannon Street, London, E.C.

ASSISTANT required for a Perfumery and Toilet Preparation house; permanent post, with good prospects. Write full particulars to "L." (220/18), Office of this Paper.

AGENTLEMAN of good education, about 35, with a thorough knowledge of the Drug trade, especially office management, for a responsible post in an export and Manufacturing Druggists; only those with first-class similar experience entertained; liberal salary and prospects for a really capable and energetic man. Apply, stating full particulars of experience and qualifications if any, also commencing salary looked for, to "Folia," 38 Lorne Road, Stroud Green, N. 4.

COUNTER Men required; Wet and Dry Departments; City Wholesale house; state age, experience, salary, etc. Apply Box 260/28, Office of this Paper.

EXPERT Sugar Coater required as Foreman of this department by well-known house South of London; Pills and Tablets; excellent opportunity and very good wages for a really competent man. Full particulars, age, and experience, to "L." (221/330), Office of this Paper.

LABORATORY Assistant, thoroughly capable man, for making and coating pills and tablets; liberal terms to competent man. Apply 216/73, Office of this Paper.

LADY Manager wanted for Packing Departments; must be familiar with modern packing methods for drugs and foods, able to supervise costing wage payments, etc., and to control large staff of girls. State experience and salary required to Goodall, Backhouse & Co., Leeds.

PACKED GOODS.—Experienced woman to take charge; good Stockkeeper and Disciplinarian. Apply 222/691, Office of this Paper.

PHARMACEUTICAL Laboratory.—Wanted, qualified Pharmacist accustomed to the manufacture of Galenicals, Tablets, Pills, Ointments, etc., by machinery. Apply, stating full details of experience, age, and salary required, to Brady & Martin, Ltd., Northumberland Road, Newcastle-upon-Tyne.

PILLMAKER required; able to take control; with knowledge of Automatic Machinery and Coating. Apply 225/26, Office of this Paper.

REPRESENTATIVE for Ireland (salary and commission).—Wanted (at once), a first-class man by up-to-date Manufacturing concern; thoroughly well known to Chemists, and capable of doing big figures in Toilet packed, and allied goods; must be energetic, reliable, steady, and character bear strictest investigation; reference given to Irishman fulfilling above qualifications; good prospects to the right type of man. Apply, with some idea as to salary and fullest particulars, age, etc., to "Dolphin" (217/34), Office of this Paper.

REPRESENTATIVES, with thoroughly sound connection only, amongst Chemists, to sell Doctor's Cornflour and Custard Powders in packets; commission basis. Wilmae, Ltd., 14 Bow Lane, E.C.

REPRESENTATIVE, having live connection amongst Hospitals, Wholesalers, etc., required for London, by old-established manufacturing firm of Druggists' Sundries; salary and good commission to suitable man. Apply, with full particulars, to 224/20, Office of this Paper.

REPRESENTATIVES required to carry a high-class and extensively advertised Proprietary Line; must have good connection amongst Chemists, and only progressive and energetic Salesmen need apply; good salary and commission and excellent prospects. State full particulars as to age, ground covered, present and past appointments, in strictest confidence, 225/27, Office of this Paper.

SALESMAN required by Manufacturers of well-known high-class Toilet Soaps and Preparations; preference given to man with good connection amongst Chemists and Stores in Eastern Counties, comprising King's Lynn, Oxford, Bedford, and North of London. Fullest particulars of experience and salary required to "Eastern" (222/49), Office of this Paper.

TABLET MAKING.—Experienced Tablet Machinist required to take charge of compressing room of leading manufacturers in the South; preference given to one accustomed to use of lathe for making Punches and Dies, but this could be taught. State age and experience to "L" (221/33), Office of this Paper.

WANTED, Representative for Scotland; Drugs, Dressings, etc.; connection not essential. Age, salary, and full particulars in confidence, to 222/69, Office of this Paper.

WANTED, Patents and Proprietaries, to take charge; experienced Stockkeeper and Organiser. Particulars, references, etc., to 222/690, Office of this Paper.

WANTED, young woman accustomed to Ampoule Sealing. Apply personally J. F. Macfarlan & Co., 9 & 11 Moor Lane, E.C. 2.

WANTED, smart Travellers, with first-class connections, Scotland and Ireland territories, to push excellent side-line; 20% commission; proved Dry Cleaner; not a dye; sell 3d., 6d.; perfect results on the fashionable velour and felt hat and wide range of articles; small samples. Write 259/6, Office of this Paper.

WHOLE OF WALES.—Wanted, a gentlemanly Representative, salary, commission, and expenses, thoroughly known to chemists on this ground, by an important house manufacturing Packed and Toilet Goods, besides handling a number of very popular advertised specialities; must reside on territory, be a good Salesman, energetic, and reliable. Write, giving fullest particulars, to "Centum" (225/44), Office of this Paper.

SITUATIONS OPEN.

4s. 6d. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

(Colonial, Indian and Foreign.)

FEDERATED MALAY STATES.—Qualified Assistant; unmarried; must have had good experience in retail; terms three years' agreement; salary 350, 400, 450 pounds sterling per annum; passage paid second class out and home; short hours; good climate; the firm one of the largest in the East; and the position and surrounding country most attractive. Apply Dakin Brothers, Ltd., 82 Middlesex Street, E. 1.

INDIA.—Required, by an old-established British firm in Calcutta, an Assistant; qualified preferred; must be neat and accurate Dispenser; four years' agreement; salary monthly, first year Rs. 300, second year 325, third year 350, and fourth 400; passage paid both ways. Apply, giving age, qualifications, and experience, to 256/1, Office of this Paper.

SINGAPORE, STRAITS SETTLEMENTS.—Wanted (immediately), qualified Assistant; energetic and of good experience; Optical knowledge an advantage; three years' agreement; passage out and home, salary first year £35 a month, second year £37 10s., third year £40. Apply to M. K. Watt, Pharmacist, 28 Esslemont Avenue, Aberdeen.

SOUTH AMERICA.—The Representative of a leading London firm, shortly returning to South America, is open to accept the representation of another first-class Proprietary for Brazil, Argentine, Uruguay, and Chili; this is an exceptional opportunity to secure the services of an experienced Representative thoroughly conversant with the language and business possibilities of the South American market. Address, A. B., o/o Messrs. Fletcher, Fletcher & Co., Ltd., Vibrona Laboratories, Holloway, N.

LABORATORY Manager wanted for abroad; a first-class man able to take charge of a Steam Laboratory; must be thoroughly up-to-date in every respect and experienced in the manufacture of Coated Pills and Tablets by modern machinery; an excellent opening for a young man desirous of settling in a comfortable position in a healthy British colony. Write "E. B. R." 43 Northumberland Avenue, South Wanstead, London, E. 12.

SITUATIONS WANTED.

1s. for 12 words or less; 6d. for every additional 10 words or less, prepaid.

[HOME.]

RETAIL.

A DEMOBILISED Officer and qualified Chemist is seeking a berth as Manager; country preferred; personally known and recommended by Wright, Layman & Unnay, Limited. Apply "D. O." c/o 46 Southwark Street, S.E. 1.

A BLE Locum, highest references, well recommended, desires engagement first one or two weeks August. 225/21, Office of this Paper.

A DVERTISER, 28, wide commercial experience with house or note, desires post (indoors or outdoors); excellent credential "A. C." (256/3), Office of this Paper.

A S Locum; qualified, 32; disengaged August 16. Thomas, o/o Ashfield, Chemist, Shanklin.

A S Manager or Locum; qualified, good experience. "Pharmacist," 149 Blomfield Road, Bristol.

A S Manager or Locum; qualified; experienced; disengaged "Linum," 2 The Lodge, Richmond Road, W. 12.

A SSISTANT; unqualified; 21; high-class West-End experience; good-class business preferred; Chester or district. Apply "A. E. W." c/o Red Hill Farm, Saltney, near Chester.

A SSISTANT, Senior; disengaged; Locum or permanent; qualified. A. Farquhar, 35 Abbey Street, Rhyl.

A SSISTANT, 27, qualified Square, demobilised officer, good round experience Dispenser, Counter, Photography, Wind etc., six years' experience, capable, trustworthy, and energetic; desires situation; permanency; state salary. Apply "N. O. (257/16), Office of this Paper.

A SSISTANT, unqualified, 38, just demobilised, desires Manchester or district. Apply 259/37, Office of this Paper.

A SSISTANT, unqualified; good experience in Dispensing; 22 (lady). Address, E. P. (258/17), Office of this Paper.

A SSISTANT, disengaged; until October 1; experienced; capable of taking charge; unqualified; 37; married; excellent references. Apply "Advertiser," 16 High Street, Swanley, Kent.

BATH.—Qualified (26), requires situation month or two; Bath district; Rexall methods; suburban experience; photography. "Nine," Rose Cottage, Camden Road, Bath.

BIRMINGHAM AND DISTRICT.—Junior; excellent all-round knowledge; good Dispenser, live Salesman and Window dresser; first-class references; state salary. Apply "X. Y. (257/10), Office of this Paper.

RANCH Manager; qualified; married (31); near coast or country preferred. Apply "Unguent" (259/29), Office of this Paper.

APABLE, experienced Dispenser-Nurse, Hall, C.M.B., wants post, Doctor, Institution; good references. 259/18, Office of this Paper.

CHEMIST-OPTICIAN, qualified, seeks Temporary or Locum work; in or near London or Coast; or management with succession. 258/370, Office of this Paper.

ISENGAGED; West End experience; fluent French; dispensing, counter, photography; tall; demobilised. Sergeant, L.M.C.T., 175 Borough High Street, S.E. 1.

ISPENSER.—Qualified woman, experienced, care of works and instruments, disengaged shortly. Apply 251/21, Office of this Paper.

ISPENSER, experienced with Army and civilian Doctors, wants outdoor appointment with Doctor; good life credentials; abstainer. "Wigens," c/o Agha, 1 Pelham Place, Seaford, ex.

ISPENSER.—Lady Locum, unqualified, capable, requires post for August. "Letter," 50 Durlston Road, Upper Clapton.

ISPENSER, reliable and experienced, desires engagement with doctor; four years in last post; excellent testimonials. Address Medicus, 67 Oak Street, Southport.

ISPENSER (37), with doctor, Requires post with Doctor or Chemist; married (no family); reliable and abstainer; little former experience, some knowledge dentistry, photographic. enser, 41 Aberfan Road, Merthyr Vale, Glam.

ISPENSER.—Young lady desires post with Chemist or Institution; Hall certificate; please state hours; disengaged. and, 5 Lawn Terrace, W. Kensington, W. 14.

ISPENSER (lady), 2½ years' chemist's experience, C.M.B., desires post, preferably with doctor. Apply 260/10, Office of this Paper.

ISPENSER, Locum or permanency, Hospital, Dispensary, or Doctor; experienced in either; Hall qualification; age 45; retired; disengaged; good references. Address 258/26, Office of Paper.

ISPENSER-BOOKKEEPER (Hall); experienced; unfurnished residence at Branch Surgery or shop preferred. Apply 240, Office of this Paper.

EVENINGS.—Disengaged three or four evenings after 6.30 p.m.; Counter or Dispensing; West or South-West District preferred. Apply "Cicfa" (255/35), Office of this Paper.

X-OFFICER Student requires part-time post; Clapham district preferred; unusual testimonials; interviews invited. ands, "Kinross, 164 Clapham Road, Clapham.

PERFICIENT Dispensee desires berth; West-End experience; disengaged. S. Clarke, 33 Molyneux Street, Edgware Road, L.

PERFICIENT, trustworthy Assistant, disengaged, desires situation; permanency preferred; unqualified; thorough all-round business knowledge; reliable Dispenser, Window-dressing, Photography; capable of taking charge; satisfactory references; Barret, 3 Tirr Terrace, Westgate.

EE July 22-29; union wages and railway fares. "Locum Manager," 281 Forest Road, Walthamstow.

ENCH-SPEAKING Assistant (Junior); West-end counter experience; tall; disengaged July 30. Apply 261/20, Office of this Paper.

HOSPITAL Dispenser, Locum; qualified. Irving, 66 Rowfant Road, Balham, S.W. 17.

TOR or Improver (18½) requires situation; 4½ years' experience; Kent or Sussex preferred. Apply 257/3, Office of this

LADY, qualified, 30, educated, 12 years' experience of Retail Pharmacy, seeks responsible position in London; Wholesale, Institution, or Managership; disengaged in September. Apply 255/30, Office of this Paper.

LADY, 22, 5 ft. 8 in., smart, and born in the business, desires situation at Chemist's; Counter and Window-dressing; at liberty August 4th; seaside preferred. Apply Laura Ashworth, "Glenbourne," Heywood, Lancs.

LADY wants post as Dispenser; London district; good references. Apply 257/20, Office of this Paper.

LADY Dispenser (Hall) desires Locum work; four years' experience Chemist, Doctor, Hospital. Redfern, 6 Arundel Gardens, London, W. 11.

LADY Dispenser (Hall), experienced, desires post; good experience and references. Address B. R., 353 Brixton Road, S.W. 9.

LADY Dispenser, Hall qualification, West-end Chemist's experience, requires post in London with Chemist or Doctor. Apply L. S., 156 Elgin Avenue, Maida Vale.

LADY Dispenser; disengaged (Hall); four years' experience. Apply 260/26, Office of this Paper.

LADY Dispenser, Hall, seeks re-engagement (at once) in good pharmacy, Westcliff, South or South-East Coast; reliable good references; moderate hours. Apply 259/33, Office of this Paper.

LADY Dispenser, Hall qualification, London Matriculation, requires post; Loudon preferred. 258/13, Office of this Paper.

LADY DISPENSER, five years' experience, requires engagement; Doctor, Institution, or Chemist; Manchester, Liverpool, further distance not objected to; live in if required. 258/2, Office of this Paper.

LOCUM; unqualified; experienced; abstainer; disengaged August; terms moderate. Oliver, Pilkington's Pharmacy, Matlock.

LOCUM; experienced; unqualified; take charge; abstainer; disengaged. "Locum," 2 Christian Road, Preston.

LOCUM; 35; qualified; experienced and reliable; Retail, Hospital, or Institution; disengaged till August 11th. "A.," 70 Clauclarty Road, Fulham, S.W. 6.

LOCUM; 25; qualified; experienced; open 19th July till 4th August; five guineas plus fare. "M.P.S." 81 Gough Road, Edgbaston, Birmingham.

LOCUM, qualified, disengaged till September. Apply 256/36, Office of this Paper.

LOCUM or Manager; qualified; highest credentials; reliable; at liberty. "Tetanus," Hazelwood, Windermere Road, Coulsdon, Surrey.

LOCUM, unqualified, open for engagements till October; thoroughly experienced Counter and Dispensing; capable taking charge. "Statim," 29 Keswick Road, Blackpool.

LOCUM; 27; Qualified; knowledge Photography; first-class references. 6 Jordan's Terrace, Cambridge.

LOCUM or permanent; disengaged August 6th; unqualified; age 50. "Borax," 14 Crown Road, St. Margaret's, Richmond, Middlesex.

LOCUM; disengaged; abstainer; 32; exceptional experience Dispensing and Photo. Dymond, P.O., Appledore, Devon.

LOCUM, qualified, demobilised, 4½ years Sergeant Dispenser R.A.M.C., will accept moderate salary to regain touch with Counter-work, etc; Photographic and Optical experience. S. Banks Smith, Sutton, Cambs.

LOCUM or otherwise; qualified; elderly; experienced Dispenser; N.H.I.; disengaged August 1 or earlier; moderate terms. Lewis, 2 Tipping Street Bolton.

LOCUM Dispenser; Hall; experienced; disengaged August 5; country or seaside preferred. Miss Saul, 15 Victoria Street, St. Albans.

LOCUM; disengaged; 38; eighteen years; London, country, Continent; Dispensing, Photographic, good Counterman; fluent French. "Chemist," 187 Southwark Bridge Road, S.E.

LOCUM; qualified; highly recommended; abstainer; disengaged July 28-August 9. "S," o/o Mr. Woodecock, 50 Buckleigh Road, Streatham Common, S.W. 16.

LOCUM; qualified; experienced. Apply 260/8, Office of this Paper.

LOCUM, vacant date from Saturday, July 19, to Saturday, August 2, inclusive; used to all classes of trade—Photography, Dispensing, Counter, and Dentistry. Terms: Travelling expenses and 2*l.* 10*s.* per week indoors, or 4*l.* 10*s.* outdoors. Excellent references. Replies to Advertiser, Heathermeade, Stile Road, Headington, Oxford.

LOCUM, qualified, reliable; disengaged July 21 to 28. Apply 258/15, Office of this Paper.

LOCUM.—Lady Dispenser (Hall), Liverpool, requires post for August and early September. 258/20, Office of this Paper.

LOCUM or Branch Manager; elderly; up-to-date experience, Dispensing and Counter; disengaged. "Chemist," 28 London Road, Horsham, Sussex.

LONDON SUBURBS.—Assistant; 26; unqualified; recently demobilised; good experience N.H.I. Dispensing and Counter, "Rhei," 8 De Burgh Crescent, West Drayton, Middlesex.

M.P.S., F.S.M.C., young, married, seeks situation as Manager; good varied Pharmaceutical and Optical experience; would undertake to build up optical connection; living accommodation a *sine qua non*. Corden, "Denehurst," Margaret Road, New Barnet.

M.P.S., married, experienced, gentlemanly, wishes permanent Management, with light duties and short hours; moderate salary accepted; has some knowledge of Optics; please give full particulars. "Farmakal" (259/35), Office of this Paper.

MANAGER, 14 years in present situation, seeks a change; Manchester preferred; married. "E. H. A." (259/26), Office of this Paper.

MANAGER or Assistant; unqualified; temporary or permanent; great experience; tall, active; disengaged. "Statim," 46 High Street, Maidstone.

MANAGER or Assistant, 27, qualified, married, capable, undeniable references, desires permanency. Chatfield, 119 Poole Road, Bournemouth West.

MANAGER; qualified; disengaged; married; 20 years' experience. Details to D. O. C., 26 Fox Hill, Upper Norwood.

MANAGER, qualified; high-class West-End, South Coast, and Suburban experience, and quick-cash Provincial, Photographic; active, reliable (ex-staff-sergeant and infantry officer); 34; married; £6 10*s.* week; more London; disengaged by arrangement. Kindly state full particulars, "M.P.S." (259/4), Office of this Paper.

MANAGER (29), qualified, married, experienced, and reliable, seeks position in good business. Particulars 259/21, Office of this Paper.

MINOR Student, part-time, required rate 2*s.* per hour; first-class experience Dispensing, etc. Apply "Statim," 31 Dayton Road, Hampstead, N.W. 3.

PART-TIME (until October); London, S.E. or S.W.; Minor student. 258/8, Office of this Paper.

PERMANENT or Locum; unqualified; 35; capable Dispensing, Counter, Photographic; S.W. preferred; disengaged. "Statim," 20 Queen's Road, Lavender Hill, S.W.

PHARMACIST, all-round experience Manager, Buyer, Counter Dispensing, and Prescribing, at liberty September; could act as Locum during holidays shortly due or interview. Apply 251/22, Office of this Paper.

PHARMACIST, 30, married, desires post as Manager; Shropshire or Staffordshire district preferred; first-class reference W. Phillips, 70 Warwick Road, Earl's Court, S.W.

PHARMACIST; first-class experience, Dispensing, Counter Photography; excellent references; foreign language 258/6, Office of this Paper.

PHARMACIST (25), just qualified, desires situation London district; previous London and Provincial experience. Pharmacist, 10 Prudeaux Road, Clapham, S.W.

PHARMACIST seeks Retail engagement; out of London; experience chiefly Manufacturing; healthy town. "A. B." (259/110), Office of this Paper.

QUALIFIED Chemist, 51, desires post as Manager, with v to succession or interest preferred; first-class experience : references; thoroughly reliable; would accept temporary engagements during August. Apply 257/19, Office of this Paper.

QUALIFIED, 39, as Locum; disengaged July 28th to Aug 8th, both dates inclusive, and after September 1st. Apply 257/7, Office of this Paper.

QUALIFIED; disengaged July 21st; Locum or permanent age 38; present situation five years; last situation years; London only. Apply 255/38, Office of this Paper.

QUALIFIED (lady), disengaged after July, desires London (or permanency if dispensing only); in or near Bournemouth preferred; high-class Dispensing experience in Bournemouth. Replies, stating salary, to Leonard, "Goodwin," How Road, Bournemouth.

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